OmniRx Service Guide

Includes G4 Upgrade and Service Instructions

67-2023 Rev F

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Electronics Sled

This chapter provides detailed instructions to remove specific parts in the electronics sled. To replace the item, reverse the removal steps with the new part.

The whole console is replaced when changing out the Seiko printer and PS/2 keyboard for the APS printer and USB keyboard (with separate numeric pad) when spares are used up.

Tools List

The following tools are required to install the electronics tray:

- T8 Torx Driver
- T10 Torx Driver
- T15 Torx Driver
- 9/64” Allen wrench
- Standard adjustable wrench

General Shutdown

Perform shutdown procedures before doing any service.

1. Perform a graceful shutdown of the electronics sled.
2. Unplug the power cable to the OmniRx.
3. Unlock the console with the #2036 key.
4. Lift the console from the rear of the OmniRx, then prop it up.

Caution: Use an ESD wrist band while working inside the sled.

5. Disconnect the black battery cable.

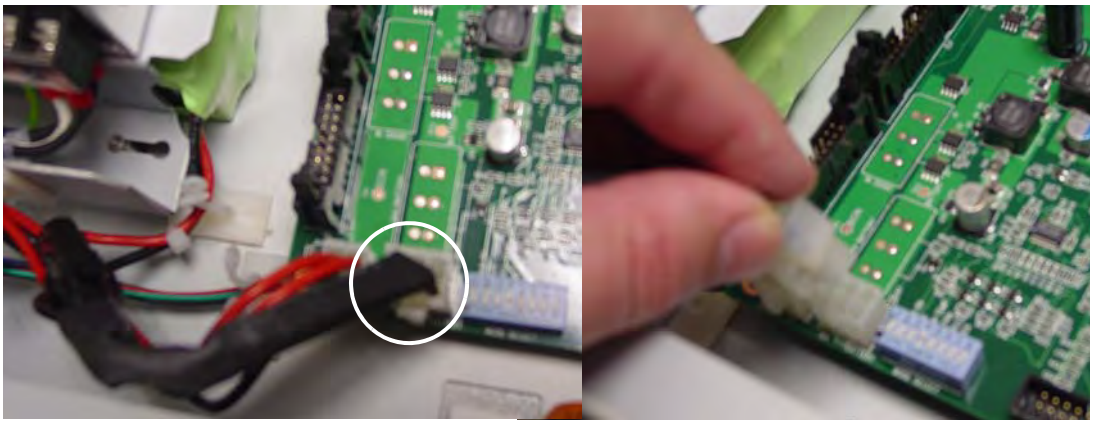

Figure 1-1. Battery cable

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LCD Screen Removal

1. Lower the console into the closed position.
2. Remove the four outer screws that secure the LCD bezel to the console using a Torx T10 screwdriver.

Figure 1-2. Remove the four outer screws

3. Remove the bezel.
4. Remove the four inner screws at the back of the bezel. Hold onto the front of the LCD screen while removing the screws so that the assembly does not fall.

Figure 1-3. Remove the four inner screws

5. Tilt the LCD assembly forward and disconnect the cables from the back of the LCD assembly.
   a. Disconnect the inverter to power cable.
   b. Disconnect the flat panel cable.
6. Remove the LCD assembly from the LCD housing.

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Speaker Removal

1. Lift the console from the rear and prop it up if it is not already open.
2. Disconnect the speaker cable from the motherboard.

Figure 1-4. Disconnect the speaker cable from the motherboard

3. Remove the two screws that hold the speaker in place using a Torx T10 screwdriver.

Figure 1-5. Remove the speaker

4. Disconnect the speaker from the console top.

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Printer Removal

Seiko Printer

1. Lower the console into the closed position.
2. Open the printer cover by pushing the black release mechanism toward the rear of the machine and lifting the cover.

Figure 1-6. Open the printer cover

3. Remove the paper from the printer.
4. Push the platen lever to the left to the disengaged position.

Figure 1-7. Turn the platen lever

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5. Remove the four screws (two on each side) that secure the printer assembly to the cover.

Figure 1-8. Remove the printer assembly screws

6. Remove the printer assembly.
7. Remove the four screws that secure the lower assembly to the frame.

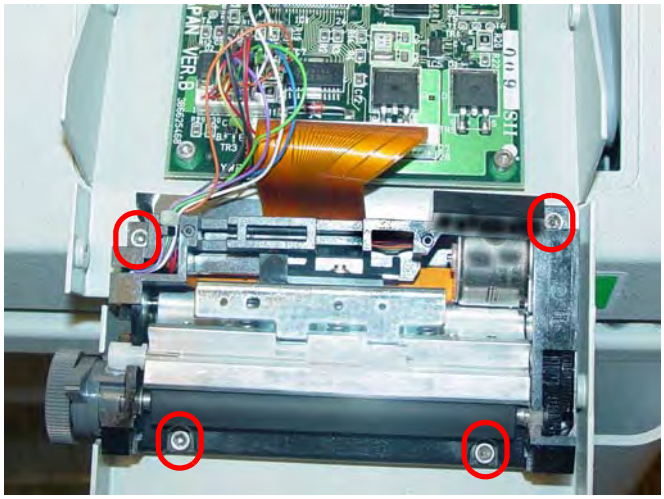

Figure 1-9. Remove the lower assembly screws

8. Disconnect the printer ribbon cable and the printer data cables from the printer PC Board.

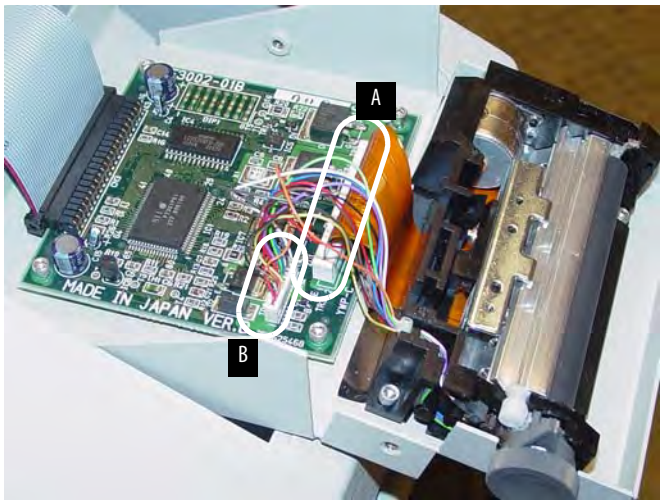

Figure 1-10. Remove the printer cables

9. Remove the printer.

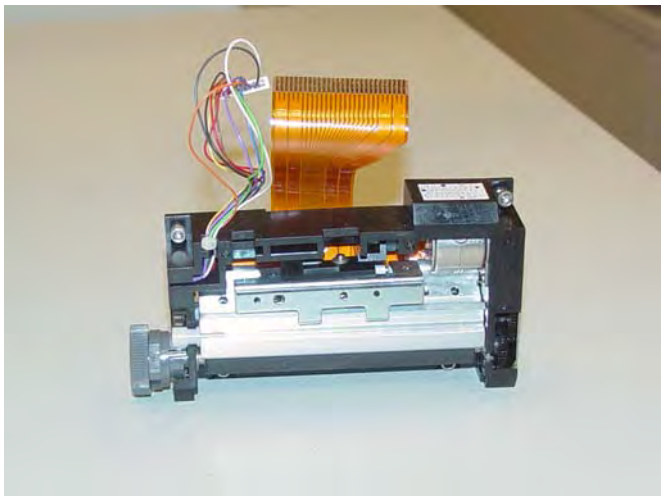

Figure 1-11. Remove the printer

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10. Remove the four screws that secure the PC card to the frame.

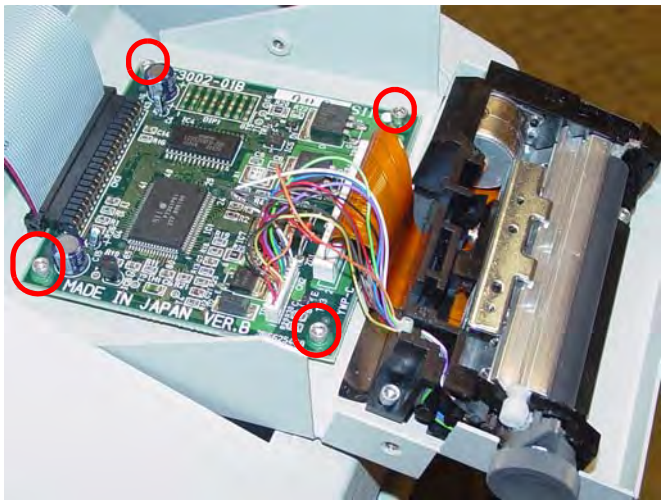

Figure 1-12. Remove printer PC card screws

11. Lift the card off the frame slightly, then remove the printer ribbon cable.

APS Printer

This service procedure is similar to the Seiko printer.

1. Open the printer cover by pushing the black release mechanism toward the rear of the machine and lifting the cover.

Figure 1-13. Open the printer cover

2. Remove the paper from the printer.

3. Lift the green platen lever on the right side to the disengaged position.

Figure 1-14. Lift the platen lever

4. Remove the four screws (two on each side) that secure the printer assembly to the cover.

Figure 1-15. Remove the Screws Securing the Printer Assembly

5. Remove the printer assembly.

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6. Remove the four screws that secure the lower assembly to the frame.

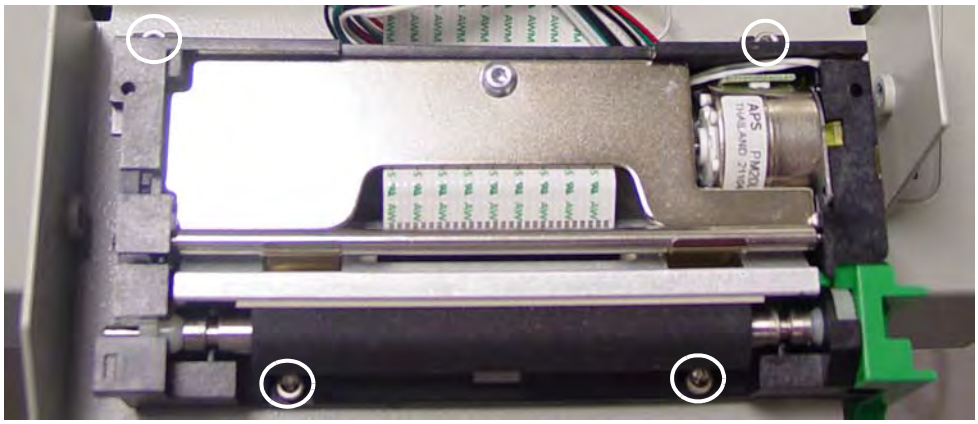

Figure 1-16. Remove the lower assembly screws (top screws partially hidden)

7. Disconnect the four printer cables from the printer PC Board.

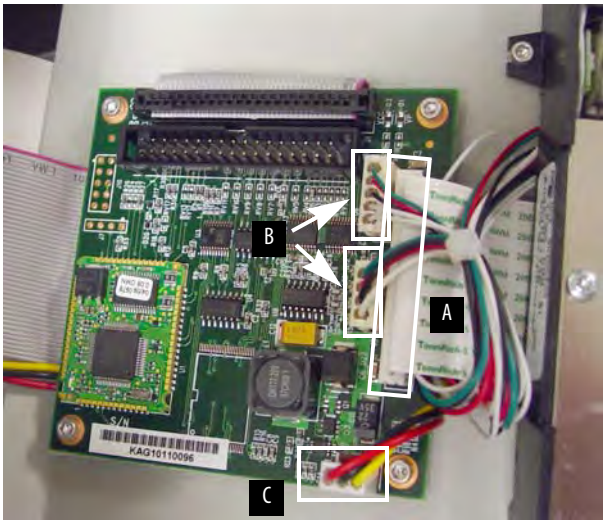

Figure 1-17. Remove the printer cables: (a) ribbon cable (b) 2 data cables (c) power cable)

8. Remove the printer.

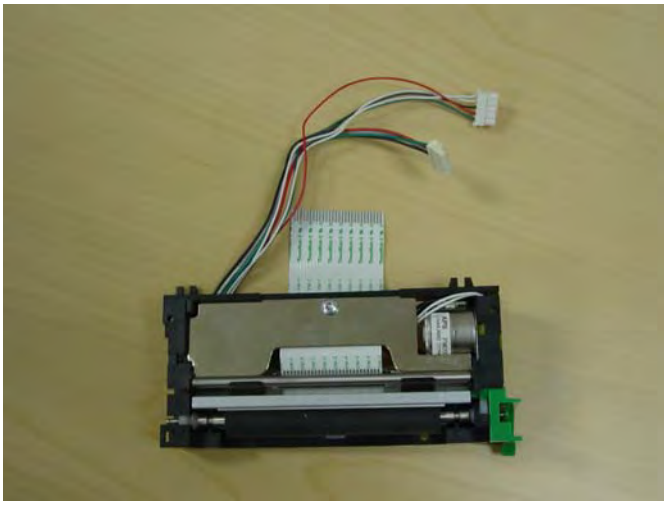

Figure 1-18. Remove the printer

9. Remove the four screws that secure the PC card to the frame.

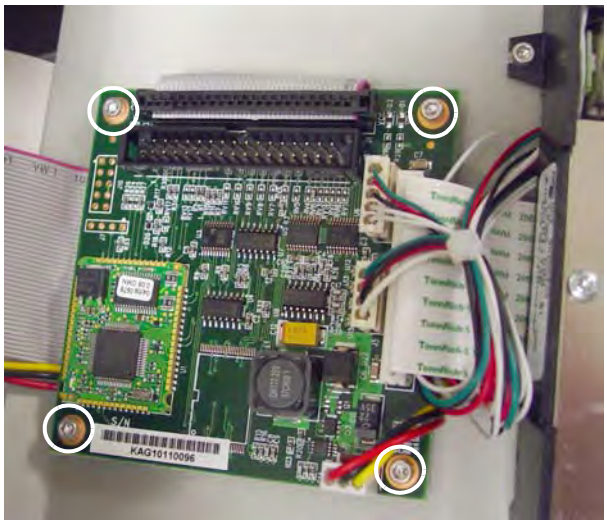

Figure 1-19. Remove the printer PC card screws

10. Lift the card off the frame slightly, then remove the printer ribbon cable.

Keyboard Service

1. Disconnect all console cables.
2. Remove the console and set it upside down in a work area.

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PS/2 Keyboard

1. Remove the 14 nuts that secure the keyboard cover to the tray.

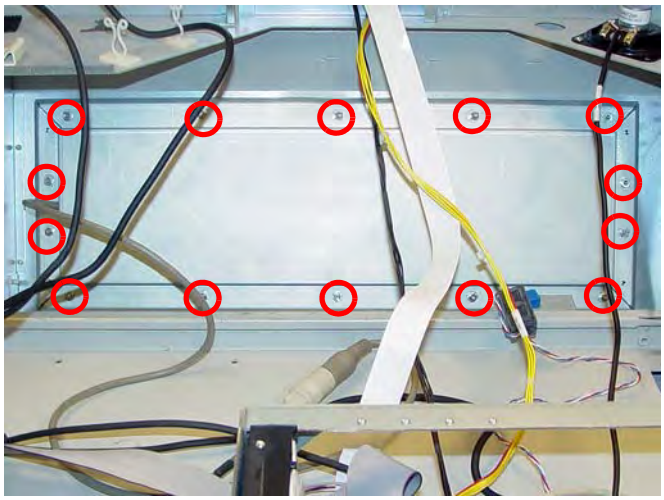

Figure 1-20. Remove the nuts that secure the keyboard cover to the tray

2. Remove the keyboard cover.

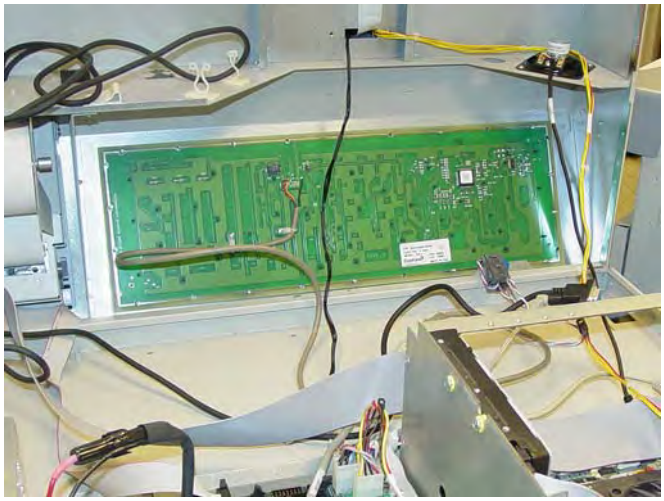

Figure 1-21. Remove the keyboard cover

3. Remove the keyboard from the tray.

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4. Hold the keypad with the elastomer facing up and gently pull the elastomer up and off the keyboard.

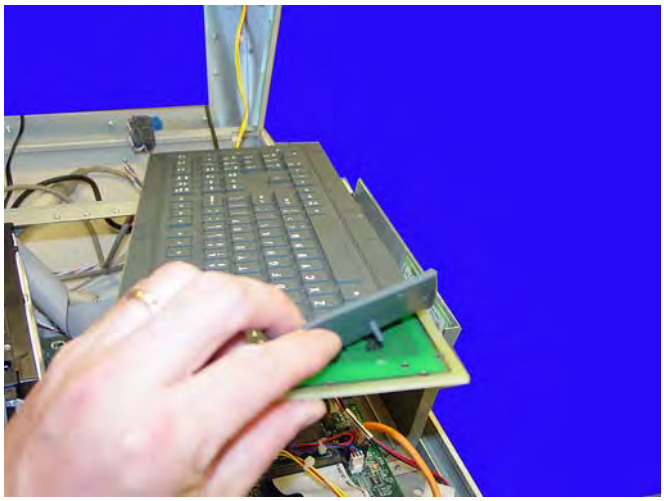

Figure 1-22. Pull the elastomer up and off the keyboard

5. Gently place the new elastomer onto the keyboard and push the rubber tabs through the holes on the keyboard.
6. Keeping the keypad upright, reach underneath the keyboard and gently pull the tabs until the elastomer rests snugly on the keyboard.

Note: To prevent ripples in the elastomer, pull the tabs through going left to right, right to left, bottom to top or top to bottom. Do not pull the tabs through in a random order or in a circular pattern.

7. Remove any bubble or ripples in the elastomer and then place the new keypad and elastomer back into place on the tray.
8. Replace the keyboard cover.
9. Replace the screws that secure the keyboard cover to the tray.
10. Set the console back in place, then prop it up.
11. Re-connect all the cables.

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USB Keyboard

1. Disconnect the cables. The ribbon cable connects the numeric keypad with the keyboard. The power cable connects the keyboard to the mother board.
2. Remove the 20 keyboard and keypad bracket nuts.

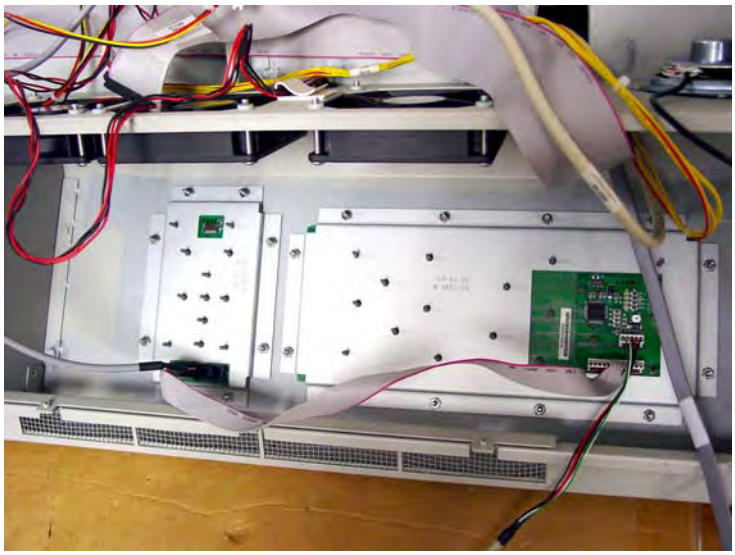
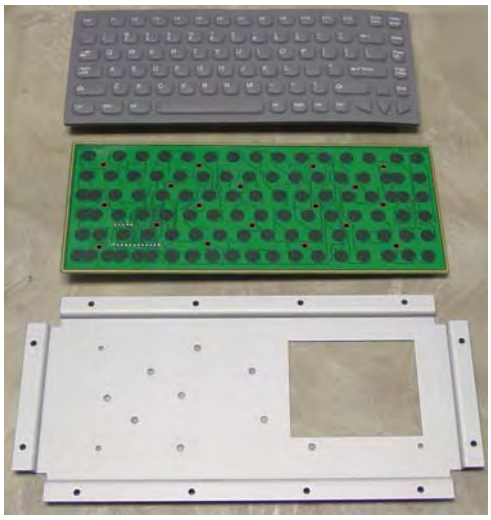


Figure 1-23. Keyboard and keypad bracket screws / cables

3. Remove the keyboard and keypad support bracket. Each contains a PC board and an overlay.
   a. Separate parts and replace as needed.



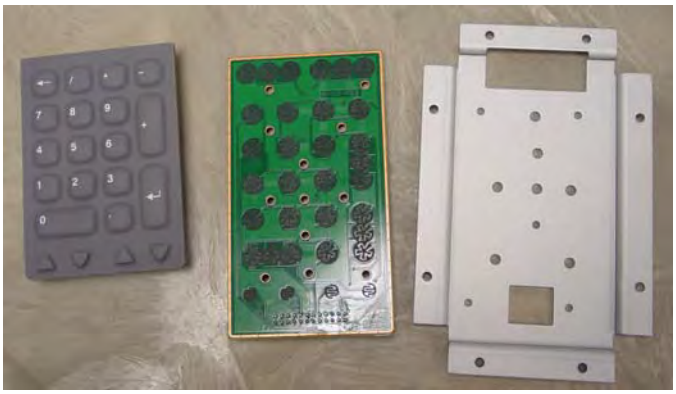


Figure 1-24. Keyboard bracket, PC board, overlay and keypad bracket, PC board, overlay

   b. Re-assemble the parts into the bracket.
4. Attach the bracket back on the console.
5. Attach the cables.
6. Set the console back in place, then prop it up.

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7. Re-connect all the cables.

PC Tray Upgrade

This section covers the replacement of the PowerCom2 tray with the PowerCom3 tray.

PowerCom2 Tray

1. Disconnect the LAN cable and the AUX cables from the rear of the electronics sled.

Figure 1-25. Location and labels for LAN and AUX cable connections on CT PC tray

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2. Disconnect the following cables from the electronics tray:
   a. LCD cable
   b. Contrast cable
   c. Inverter (backlight) cable
   d. Touch screen cable
   e. Keyboard cable
   f. Speaker cable
   g. Card reader cable (if applicable–not shown)
   h. Fan power cable (if applicable)
   i. Printer cable (free cable from any clips)
   j. Cabinet power/comm cable
   k. wireway cable

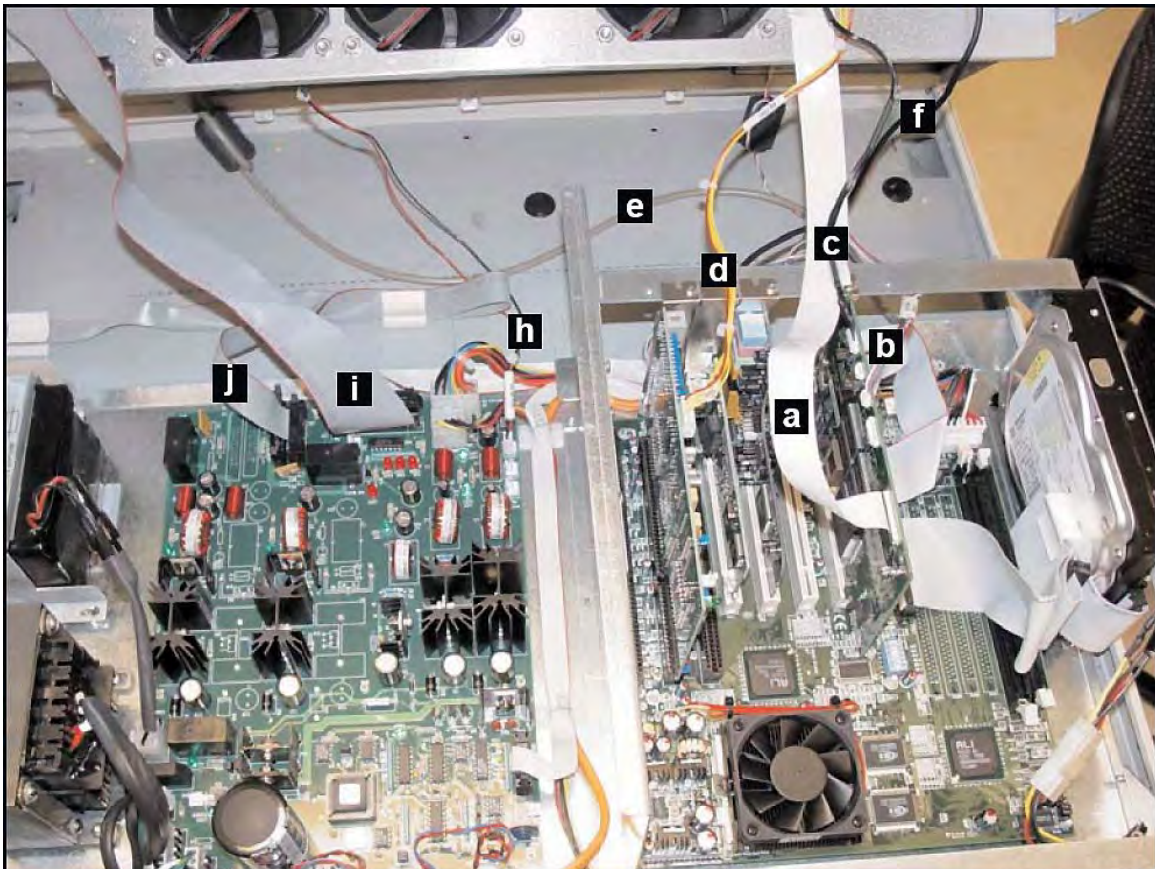

Figure 1-26. Location of cables on the CT PC tray with PowerCom2 board

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3. Turn the two 1/4-turn fasteners securing the electronics sled counter-clockwise to unlock.

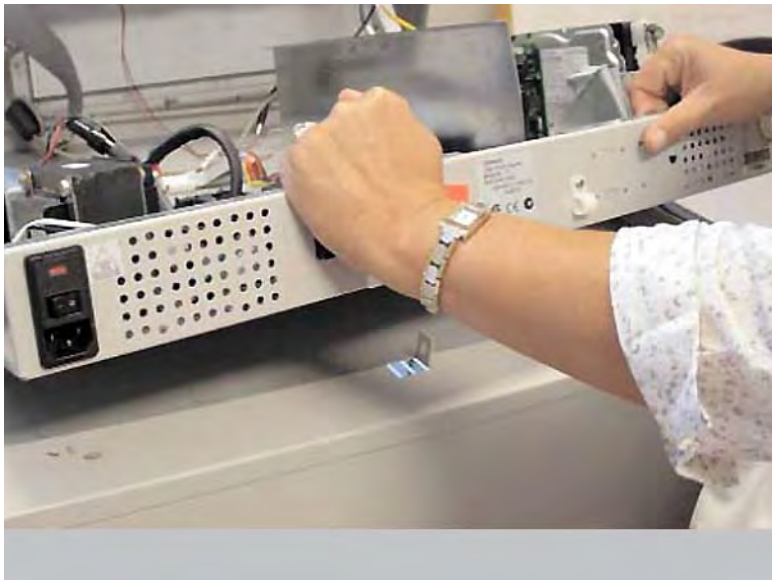

Figure 1-27. Lift and remove the CT PC tray

4. Lift and remove the PowerCom2 tray.

PowerCom3 Tray

1. Place the PowerCom3 tray into position inside the electronics sled.
2. Turn the two 1/4-turn fasteners securing the electronics tray clockwise to lock the tray into place.

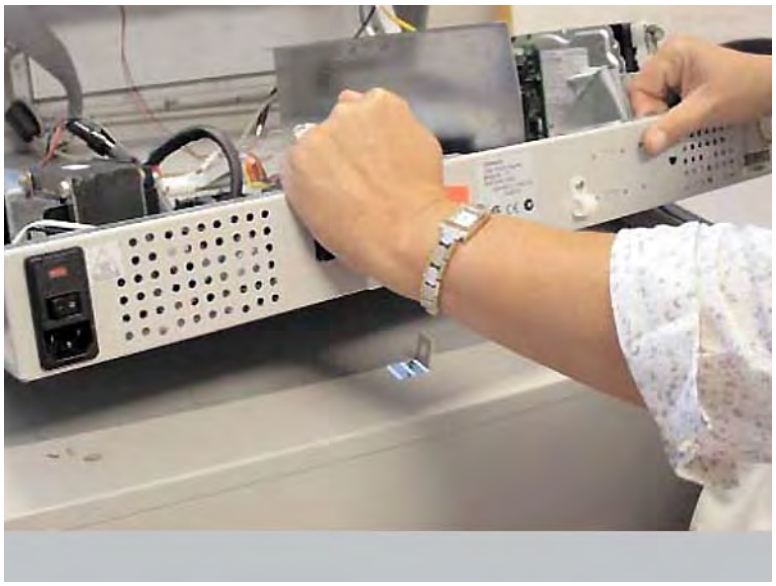

Figure 1-28. Place the CT PC tray into the OmniRx

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3. Connect the wireway cable to the J10 of the PowerCom3 Board

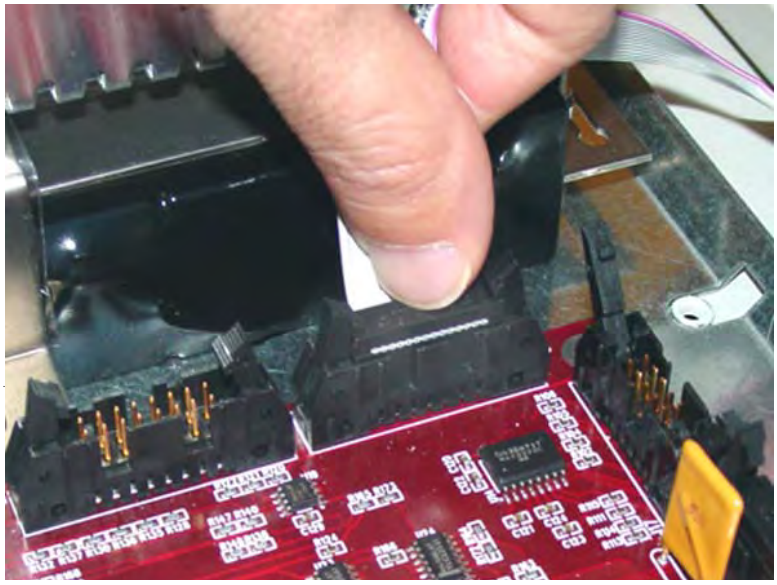

Figure 1-29. Connect the wireway cable to J10 of the PowerCom3 board

4. Connect the printer cable to J27 on the motherboard.

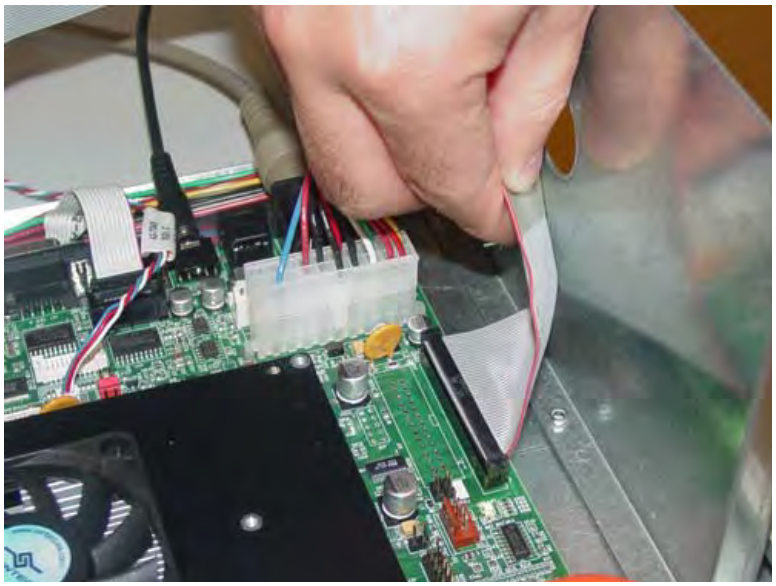

Figure 1-30. Connect the printer cable to J27 of the motherboard

Note: Ensure that the red wire is connected closest to Pin 1.

5. Connect the fan power cable to J17 on the UPS board (if applicable).

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6. Connect the speaker cable to port J45 on the motherboard.

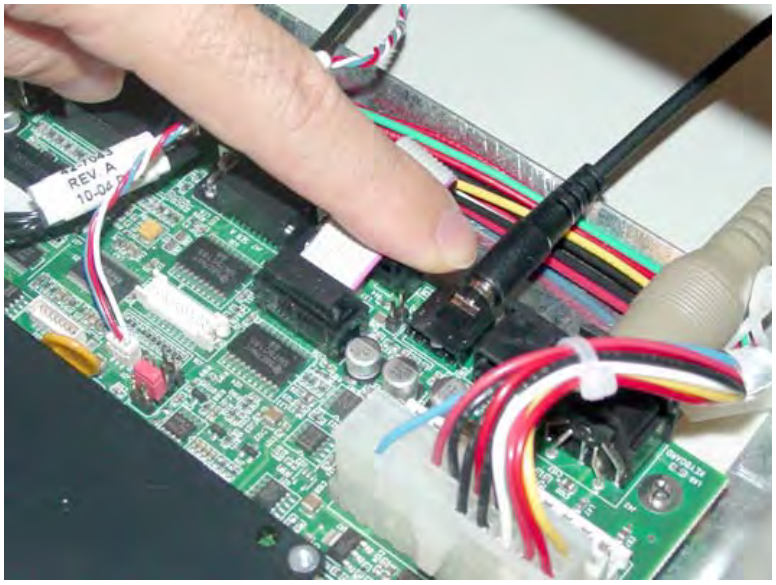

Figure 1-31. Connect the speaker cable to J45 of the motherboard

7. Connect the keyboard cable to port J42 on the motherboard.

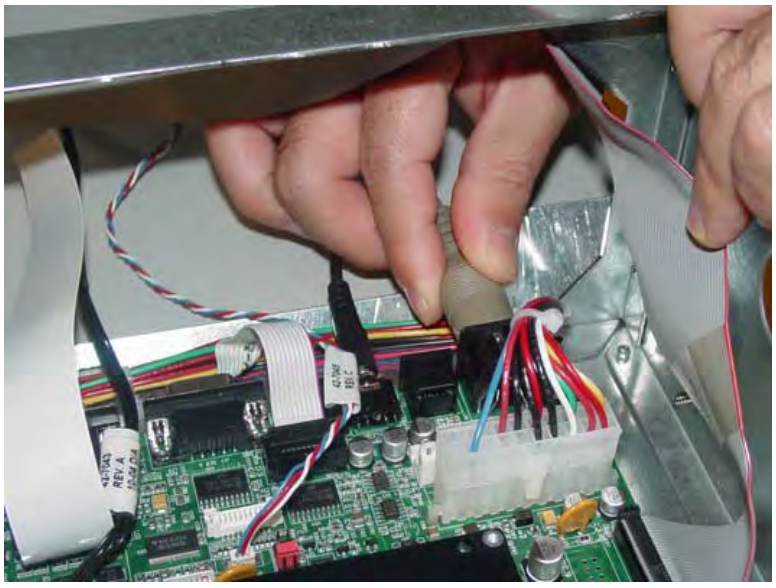

Figure 1-32. Connect the keyboard cable to J42 of the motherboard

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8. Connect the touch screen data cable to J2 on the motherboard:
   a. Connect the extension cable provided in the kit to the touch screen data cable (red wire to red wire).
   b. Wrap the joined connectors with electrical tape to ensure that the cables do not become disconnected.
   c. Connect the touch screen data cable extension to J2 on the motherboard.

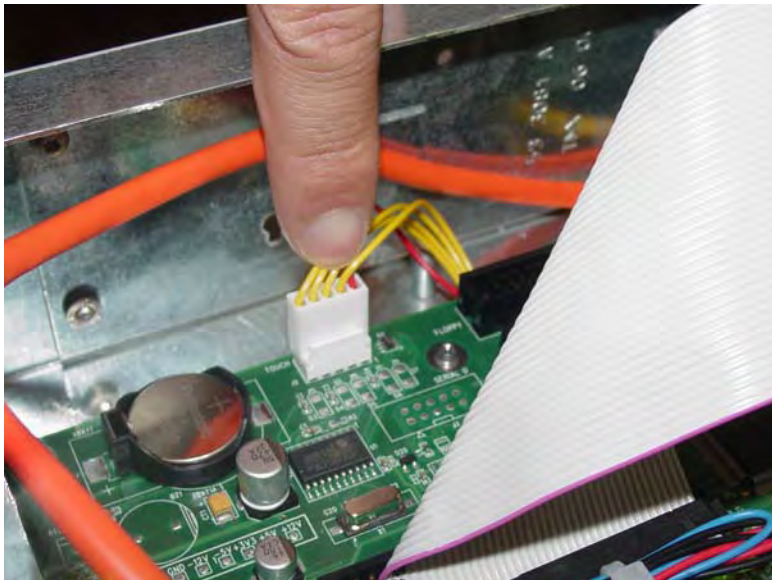

Figure 1-33. Connect the touch screen data cable to J2 of the motherboard

9. Connect the inverter cable (backlight) to J32 on the motherboard.

Figure 1-34. Connect the backlight cable to J32 of the motherboard

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10. Connect the contrast cable to J31 on the motherboard.

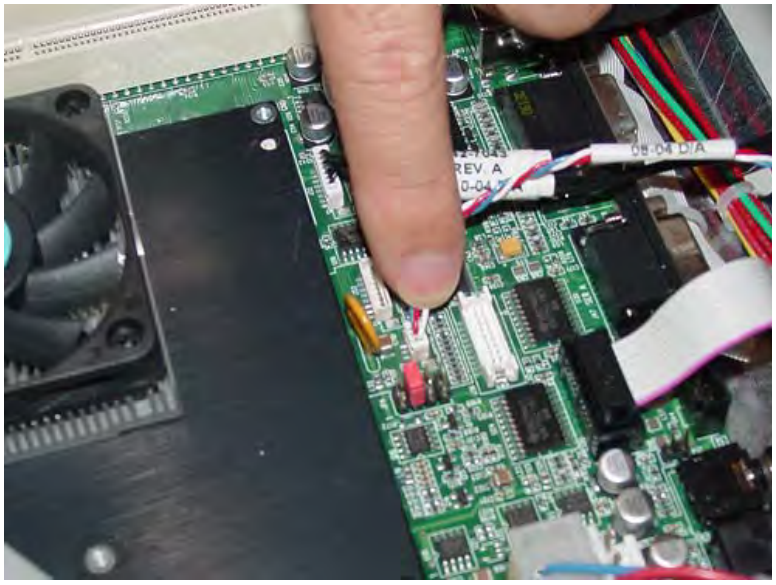

Figure 1-35. Connect the contrast cable to J31 of the motherboard

11. Connect the LCD data cable to J37 on the motherboard

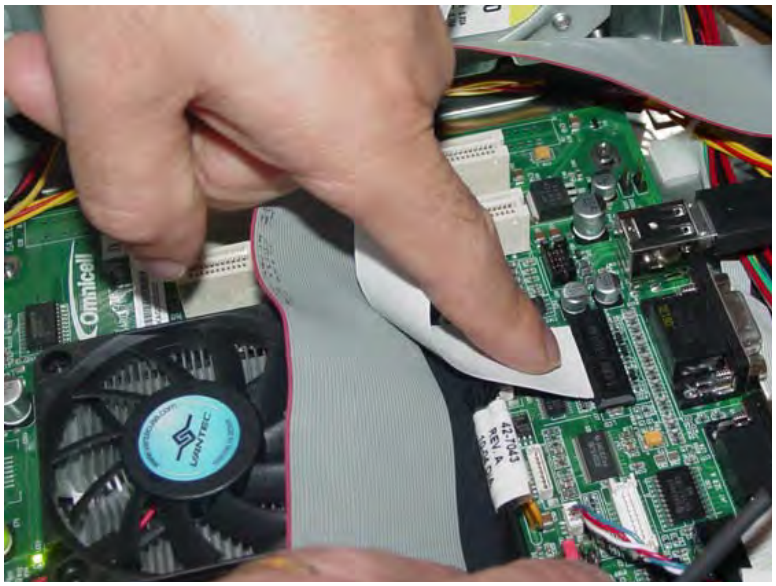

Figure 1-36. Connect the LCD data cable to J37 of the motherboard

12. If a card reader is present and needs to be reconnected:
    a. Connect the card reader serial cable to J47 on the motherboard.
    b. Connect the card reader power cable to the back of the card reader serial connector.
    c. Insert card reader power cable pins into the disk drive power connector.
    d. Align the red-stripe pin to the red cable and the gray-stripe pin to the gray cable in next spot.

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Standardization Changes

To standardize the peripherals that Omnicell products use, the Seiko printer and PS/2 keyboards are being replaced by APS printers and USB keyboards with a numeric pad. The console is swapped out in this procedure.

1. Lift and prop-up the console if it is not already open.
2. Disconnect all console cables.
3. Remove the console.
4. Replace the cable cover bracket with the new, wider one using three screws.

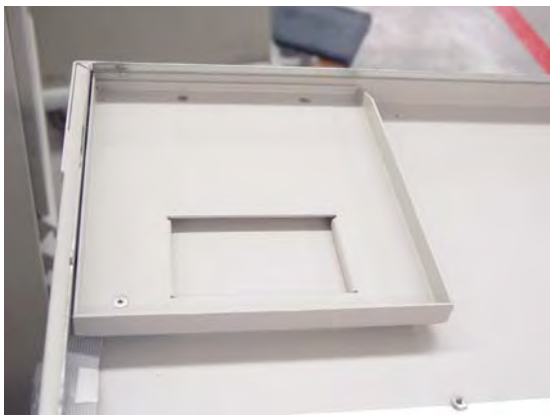

Figure 1-37. Cable cover bracket

5. Place new console into position, then prop it open.
6. Re-connect the cables. Most will go back where the old cables were with a couple of exceptions.
   - The contrast cable goes into J33 instead of J32.
   - The USB keyboard cable goes to the USB port (vs. the PS/2 connection).
   - Move the jumper on JP1 from pins 1-2 to 3-4.

Final Steps

After the service is performed, return the OmniRx to production status.

1. Lift and prop-up the console if it is not already open.
2. Re-connect the battery cable.
3. Close and lock the console.
4. Plug in the power cable, then restart the OmniRx.

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Frames and Wireways

Wireway Removal

Important: A Pharmacist must be present when servicing drawers where medications are present.

1. Perform a graceful shutdown of the OmniRx. Refer to "General Shutdown" on page 1-1.
2. Unlock the two locks on the manual override cover with the #2202, 2232 keys.
3. Slide the cover to the right and remove the cover.
4. Remove all the drawers from the OmniRx. See "Pharmacy Drawer Removal" on page 3-8.

Figure 2-1. Remove the drawers from the OmniRx

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5. Remove all drawer slides by removing the two screws that secure the slide and slide mount bracket to the frame.

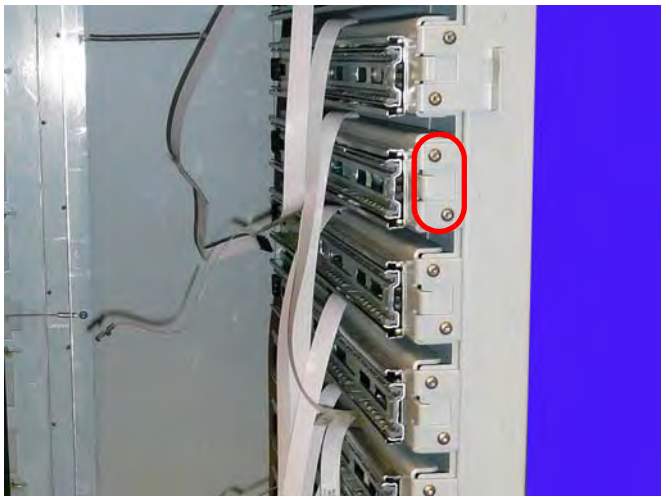

Figure 2-2. Remove the drawer rails

6. Remove the two screws on the front of the frame that help secure the wireway.

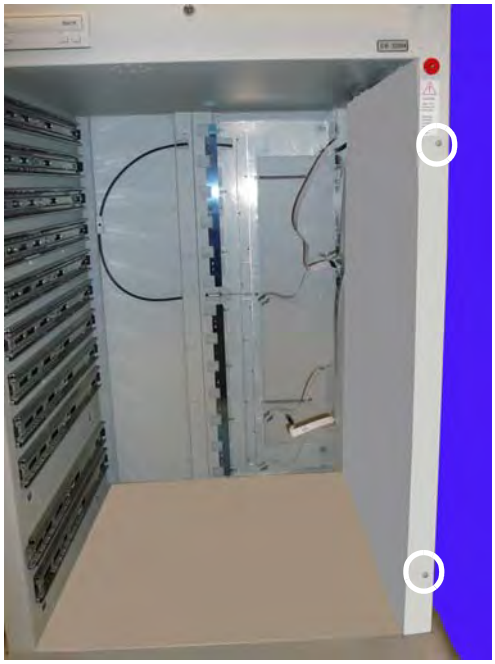

Figure 2-3. Remove the two wireway screws on the front of the OmniRx

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7. Remove the four screws on the side of the frame that secure the wireway.

Figure 2-4. Remove the wireway screws on the side of the OmniRx

8. Pull the wireway far enough from the frame to access the SPC board connectors.
9. Disconnect the cables on top and bottom that connect the SPC board to the wireway.

Figure 2-5. Remove the ribbon cable and remove the SPC board from the wireway

10. Remove the SPC board from the wireway.

Manual Override Cable Service

Removal

1. Perform a graceful shutdown of the electronics sled.
2. Remove the manual override cover.
3. Remove all three drawers from the OmniRx. See "Pharmacy Drawer Removal" on page 3-8.
4. Open the printer cover.
5. Push the platen lever to the left to release the paper.
6. Open the lid to the electronics tray.
7. Remove the thermal printer paper and spool.
8. Remove the electronics tray. See "PC Tray Upgrade" on page 1-14.
9. Remove the four screws that secure the cable cover bracket.

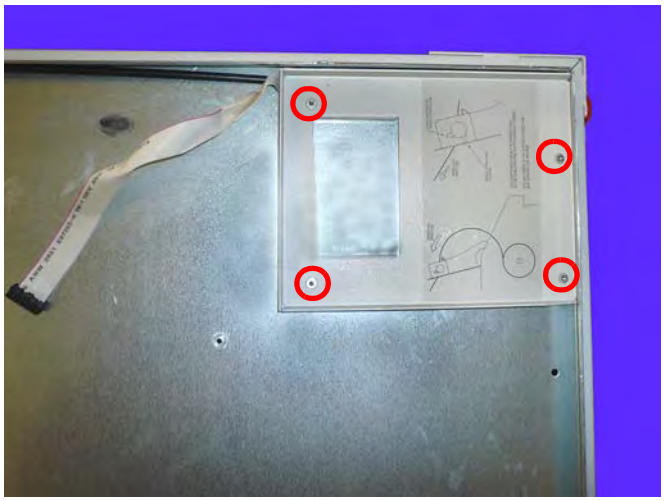

Figure 2-6. Remove the four screws that secure the cable cover bracket to the frame

10. Remove the bracket.

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11. Remove the two screws that secure the manual override cable.

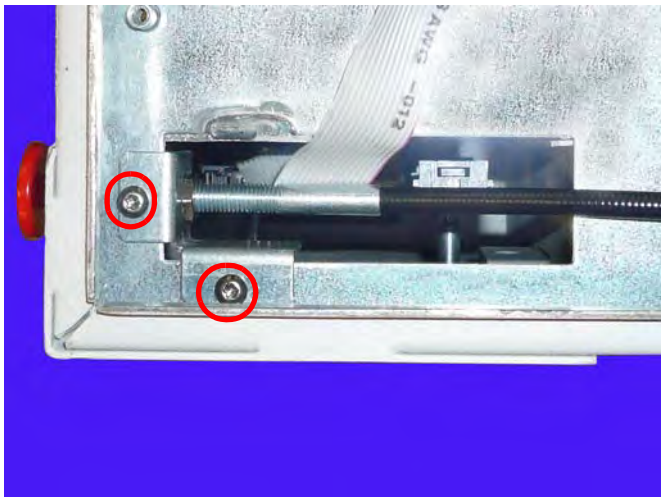

Figure 2-7. Remove the two screws that secure the manual override cable to the frame

12. Remove the red handle on the front of the manual override cable.

Figure 2-8. Remove the red handle on the manual override cable

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13. Remove the nut that secures the manual override cable to the front of the frame.

Figure 2-9. Remove the nut that secures the manual override cable to the frame.

14. Remove the screw that secures the manual override cable to the manual override assembly.

Figure 2-10. Remove the screw that secures the manual override cable to the frame

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15. Loosen the nut that secures the cable to the back of the frame.

Figure 2-11. Loosen the nut that secures the cable to the frame anchor

16. Pull the cable from the anchor on the back of the frame.
17. Pull the cable out from inside the OmniRx cabinet.

Replacement

1. Feed the cable into the OmniRx cabinet.
2. Replace the screw that secures the manual override cable to the manual override assembly.
3. Place the manual override cable into the frame anchor so that the two screws are on opposite side of the anchor bracket.
4. Tighten the screws.
5. Feed the front of the manual override cable through the hole on the front of the OmniRx cabinet.
6. Replace the nut that secures the cable to the frame.
7. Replace the red handle.
8. Replace the two screws that secure the manual override cable to the inside of the front of the frame.
9. Replace the printer support bracket.
10. Replace the thermal printer paper and the spool.
11. Replace the electronics sled and reattach all cables that had been removed.
12. Close the lid to the electronics tray.
13. Feed the printer paper through the printer.
14. Power up the OmniRx cabinet.

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Drawers

Overview

There are a variety of drawers available for the half-cell cabinets, offering different levels of control for storing and tracking medications and pharmacy supplies.

The supply drawer provides low level security. It is typically used to store items that are frequently used and require little security. The drawer is custom configured using individual dividers and has a 24-line maximum capacity.

The Omnicell matrix drawer models have no lids, but are configured with dividers. Drawer liners are used to configure matrix drawers to the required number of bins. The matrix drawers may or may not be lit with guiding light technology.

Lit matrix drawers can be configured for 24 bins maximum. Unlit matrix drawers can be configured for 96 bins maximum. The drawers are separated into four equal quadrants. Unlit drawer quadrants contain up to 24 bins. Lit matrix drawer quadrants contain up to six bins.

Omnicell sensing lid drawers provide medium security. The system senses and records access to the bins when a lid is lifted. These drawers are used to contain controlled substances.

Omnicell locking lid drawers provide the highest security. Users can only access one bin at a time which contains the pre-selected medication. All other bin lids remain locked. Special censors generate audible and visual feedback if entry is attempted into bins that are not pre-selected.

Tools List

The following tools are required to service a standard drawer:

- T10 Torx Driver
- T15 Torx Driver
- 2-sided tape

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Matrix Drawers

Bin Configuration

Unlit Matrix Drawers

Each unlit matrix drawer can contain a maximum of 96 bins (24 per quadrant). Customers can utilize the flexibility of this drawer and custom-configure it to meet specific needs and requirements for the site. As with other matrix drawers, the dividers are designed to be snapped off, enabling the bins to be custom-configured to fit site-specific needs.

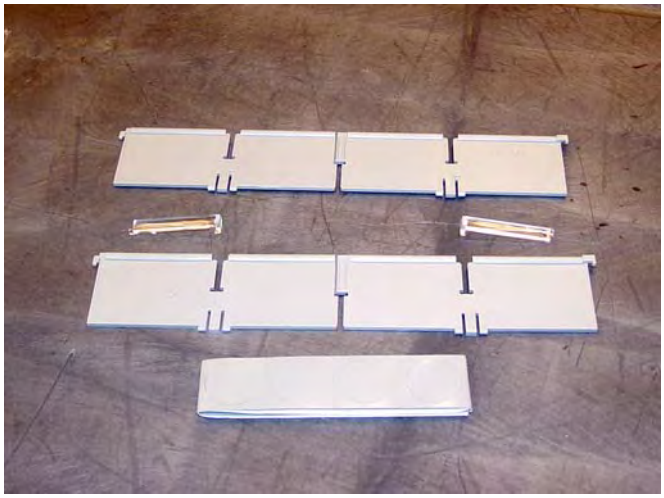

Figure 3-1. Matrix drawer dividers

Note: Dividers must be placed into the drawer in a specific order with each divider in a specific slot, so separating the dividers by part number is recommended.

1. Make sure the customer has approved the layout of each drawer.

Note: It is recommended that a drawing be made of each drawer, showing the customer's preferred configuration for each quadrant of a given drawer.

2. Break the divider tabs according to the customer design and trim away excess plastic to ensure a snug fit in the drawer.
3. Add the dividers to the bin liner. The dividers should snap into the bottom of the drawer and the sides of each bin liner quadrant.
4. Use the gray circular labels provided with the kit to cover any un-used divider slots in the bin liner.

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Lit Matrix Drawers

Each lit matrix drawer can contain a maximum of 24 bins (six per quadrant). Customers can utilize the flexibility of this drawer and custom-configure it to meet specific needs and requirements for the site. As with other matrix drawers, the dividers are designed to be snapped off, enabling the bins to be custom-configured to fit site-specific needs.

Note: Dividers must be placed into the drawer in a specific order with each divider in a specific slot, so separating the dividers by part number is recommended.

Figure 3-2. Lit matrix drawer

1. Make sure the customer has approved the layout of each drawer.

Note: It is recommended that a drawing be made of each drawer, showing the customer's preferred configuration for each quadrant of a given drawer.

2. Break the divider tabs according to the customer design and trim away excess plastic to ensure a snug fit in the drawer.
3. Add the dividers to the bin liner. The dividers should snap into the bottom of the drawer and the sides of each bin liner quadrant.
4. Use the gray circular labels provided with the kit to cover any un-used divider slots in the bin liner.
5. Insert the light pipes into each notch provided in the dividers. The light pipe is installed on the rear side of the bin divider and snaps into a slot on the bottom of the bin liner.

Note: Be sure to place a light pipe into every notch, even if the position will not be used for guiding light purposes. The pipes provide support and help keep the dividers in place.

Double-Deep Matrix Drawer

The installation of a double deep 4-bin matrix drawer (OMD4) is the same a regular double deep drawer. The OMD4 can replace an existing double deep drawer or it would replace two single deep drawers.

1. Perform a graceful shutdown of the electronic sled.

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2. Remove the existing double deep drawer, two existing drawers, two false drawer fronts or a combination of drawer and false fronts that would take up two adjoining drawer spaces.

Note: If two single deep drawers are removed, the lower set of slide mount brackets must be removed from inside the carrier before continuing.

3. Insert the bin liner into the drawer, with the side numbered 1 and 2 facing the front.
4. Insert the right/left bin divider into the bin liner.
5. Insert the front/rear bin divider into the bin liner.
6. Connect the drawer cable and insert the drawer into the carrier.

Matrix Drawers Labels

Numerical bin labels are provided with matrix drawers to make bin identification and restock easier for the customer.

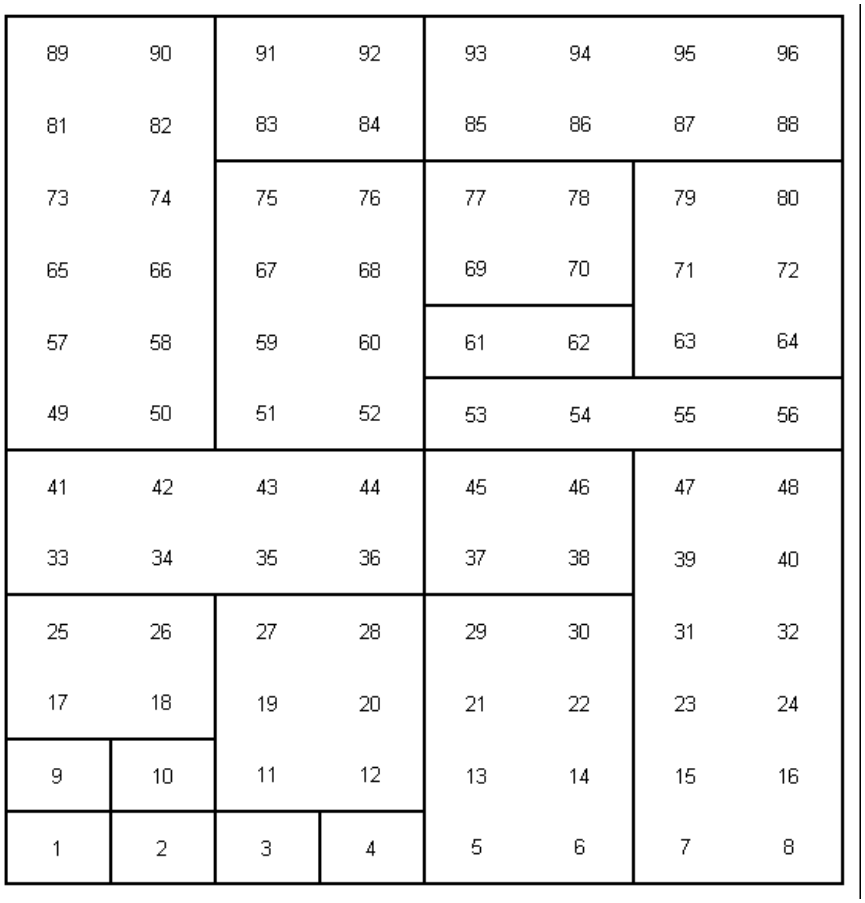

Figure 3-3. Matrix drawer labelling system

The bottom of the bin liner on any matrix drawer is numbered according to its type (i.e. 1-96, 1-24, 1-4). These numbers are used to identify bin locations for the drawer. The drawer will be numbered by using the lowest number in a specific bin.

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In Figure 3-3, the bin in the lower right corner of the drawer would be Bin 7, the bin in the upper left corner would be Bin 49, and the bin in the upper right corner would be Bin 85.

Once a bin has been configured, label the bin divider to correspond with the bin name corner. and affix the label to the top of the right rear divider of that bin.

Supply Drawer Installation

1. Perform a graceful shutdown of the electronic sled.
2. Open the door in the zone where the supply drawer will be located.
3. Slide the two drawer brackets into the slots in the back of the frame.
4. Secure the slide mounting bracket to the frame with the screw provided. Use a Torx T15 screwdriver to tighten the screw.
5. Slide the supply drawer and housing onto the brackets until the drawer snaps into the latching tabs located on the back of the bracket.
6. Connect the SPC board cable to the 10-pin connector on the rear of the SPC board in the wireway of the frame.
7. Use a Torx T15 screwdriver to insert two screws - one on either side of the bottom of the drawer - to secure the supply drawer to the drawer brackets.
8. Insert the switchpanel connector cover into the hole in the frame.
9. Set the DIP switches for the shelf and the zone settings. There are two DIP switches: The first DIP switch (S1) sets the drawer zone and the second DIP switch (S2)sets the drawer location.

Note: On switch S1, switch #8 must always be off for a supply drawer SPC.

Pharmacy Drawer Installation

Important: A Pharmacist must be present when servicing drawers where medications are present.

1. Unlock the manual override cover using the #2302 and 2232 keys.
2. Remove the cover by pushing it to the right and lifting it off.
3. Remove any false drawer front by removing the two screws securing the false drawer front using a Torx T15 screwdriver.

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Note: Keep the screws securing the false drawer front. They will be used later in the procedure.

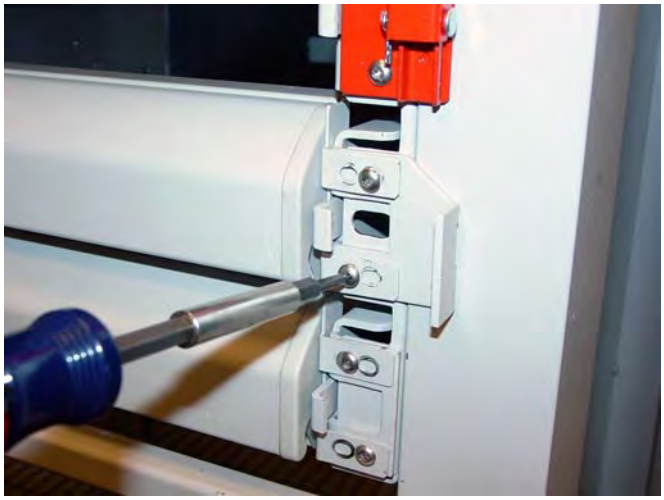

Figure 3-4. Remove the screws securing the false drawer front

4. Remove the slide mounting bracket.

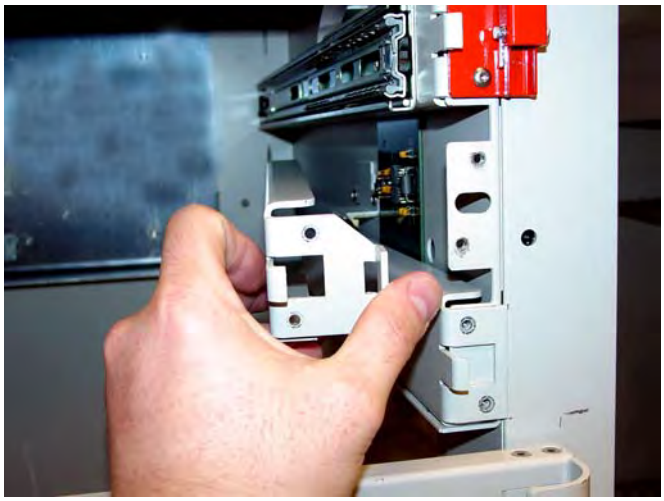

Figure 3-5. Remove the slide support bracket

5. Connect the drawer cable to the drawer connect board.
6. Use a piece of double-sided tape to attach the cable clamp to the drawer cable.
7. Line up the tape to the edges of the clamp and secure the clamp to the carrier with two screws using a Torx T15 screwdriver.
8. Connect a slide to the left side of the carrier with the three screws provided using a Torx T15 screwdriver.
9. Connect the drawer controller cable to the drawer controller board at the rear end of the drawer.
10. Replace the slide to the slide mounting bracket with three screws using a Torx T15 screwdriver.

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11. Install the slide support bracket with slide attached.

Figure 3-6. Install the New Slide Support Bracket

Note: The washers must be used. They ensure that the screw threads do not protrude into the cable path.

12. Place the drawer controller cable between the two ends of the drawer controller cable clamp.
13. Secure the pharmacy drawer controller cable clamp and the drawer controller cable to the pharmacy drawer. Use the two screws provided with a Torx T10 screwdriver.
14. Close the drawer and replace the pharmacy manual override cover.
15. Power up the cabinet.
16. Program the drawer at the OmniSupplier in Omni Configurations.

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Pharmacy Drawer Removal

1. Perform a graceful shutdown of the electronic sled.
2. Unlock the manual override cover using the #2202 and 2232 keys.
3. Remove the cover by pushing it to the right and lifting it off.

Figure 3-7. Remove the Manual Override Cover

4. Pull the manual override lever and open the desired pharmacy drawer.
5. Remove the two screws securing the drawer controller cable cover to the cable clamps using a Torx T10 screwdriver.

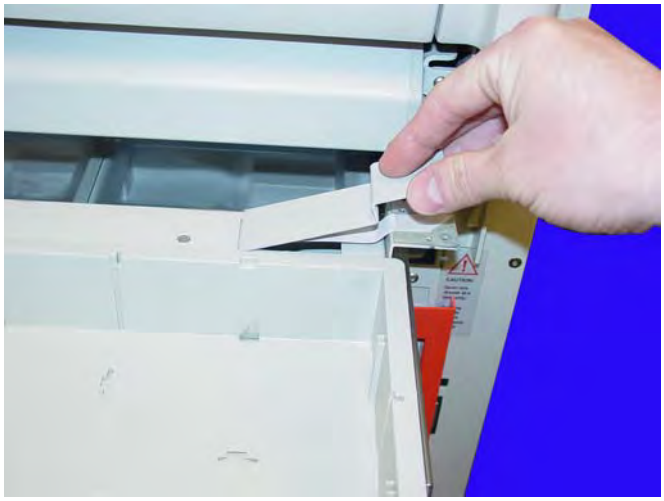

Figure 3-8. Remove the Controller Cable Cover

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6. Remove the cable clamp and disconnect the drawer cable.

Figure 3-9. Remove the Controller Cable

7. Push the release levers on either side of the drawer up or down to release the drawer.

Figure 3-10. Push the Release Levers to Release the Drawer

8. Remove the pharmacy drawer from the module.

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OmniRx G4 Console Upgrade

This chapter provides detailed instructions on how to upgrade the OmniRx to the new G4 console.

Tools List

The following tools are required to install the electronics tray:

- T8 Torx Driver
- T10 Torx Driver
- T15 Torx Driver
- 9/64” Allen wrench
- Standard adjustable wrench
- Standard pliers
- Small ratchet w/ Torx T30 bit
- Kapton Tape
- #2036 cam lock key
- #2378 cam lock key

General Shutdown

Perform shutdown procedures before doing any service.

1. Perform a graceful shutdown of the electronics sled.
2. Unplug the power cable and any network cables from the rear of the OmniRx.
3. Unlock the console with the #2036 key.
4. Lift the console lid from the rear of the OmniRx, then prop it up.

Caution: Use an ESD wrist band while working inside the sled.

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Remove the G3 Sled

1. Disconnect the battery cable.

Figure 4-1. Battery cable

2. Disconnect the LAN cable and any peripheral cables from the rear of the electronics sled.

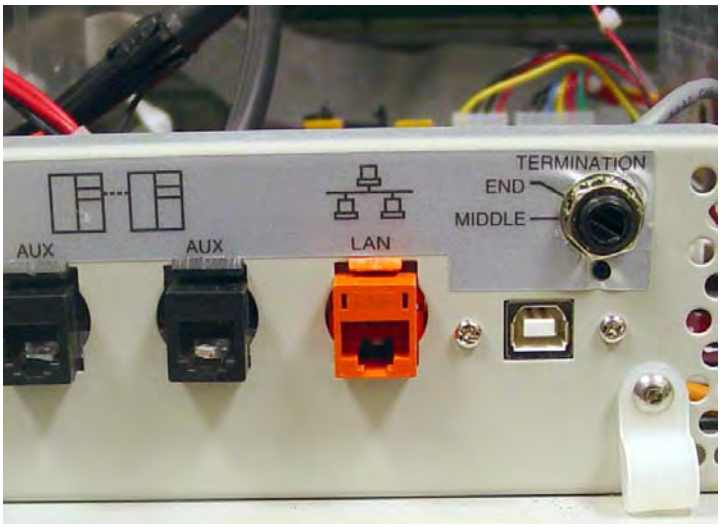

Figure 4-2. Location and labels for LAN and AUX cable connections on CT PC tray

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3. Disconnect the wireway cable from the J3 of the PowerCom3 Board

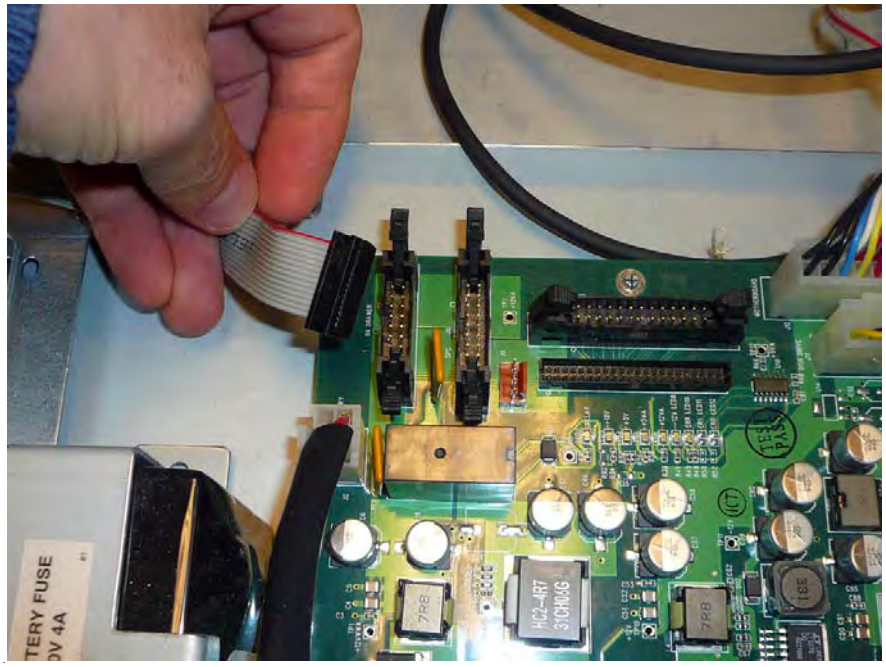

Figure 4-3. Disconnect the wireway cable from J3 of the PowerCom3 board

4. Disconnect the printer cable from J27 on the motherboard.

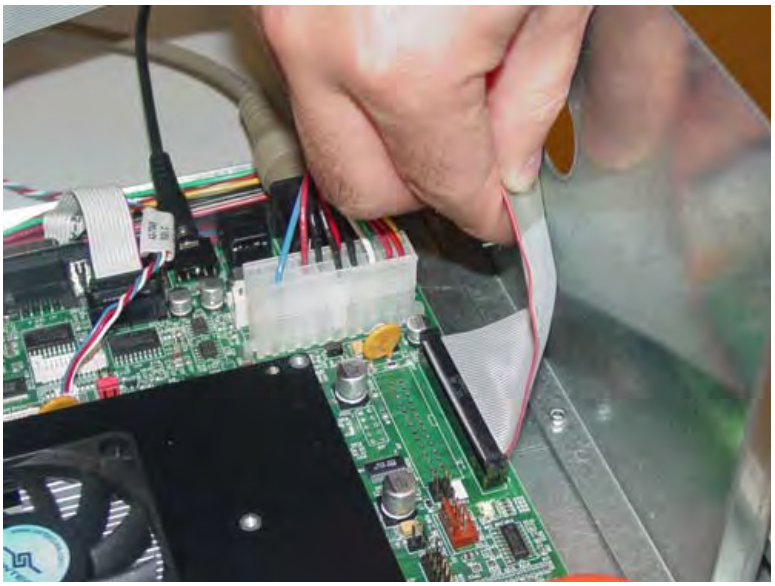

Figure 4-4. Disconnect the printer cable from J27 of the motherboard

5. Disconnect the fan power cable from J17 on the UPS board (if applicable).

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6. Disconnect the speaker cable from port J45 on the motherboard.

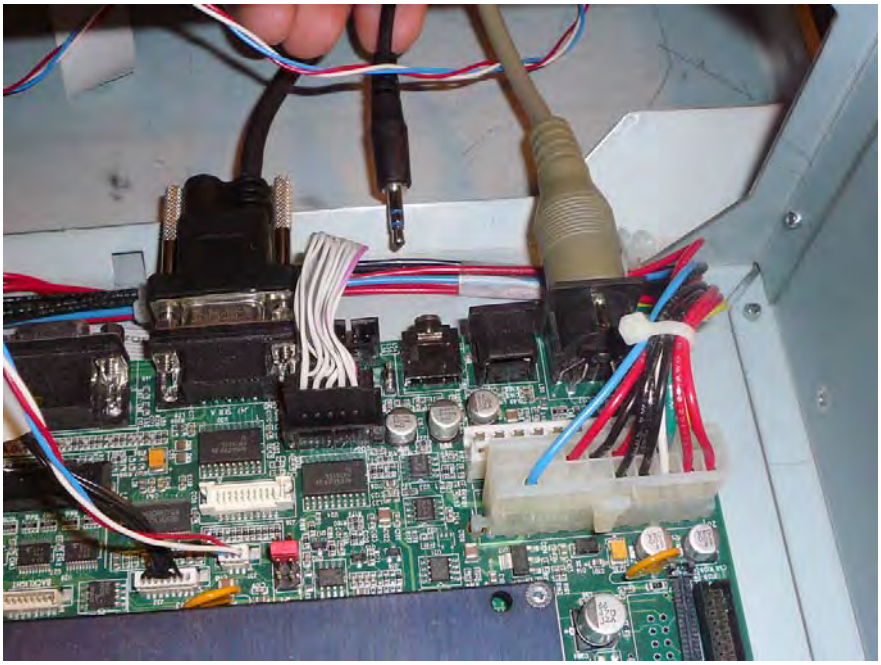

Figure 4-5. Disconnect the speaker cable from J45 of the motherboard

7. Disconnect the keyboard cable from port J42 on the motherboard.

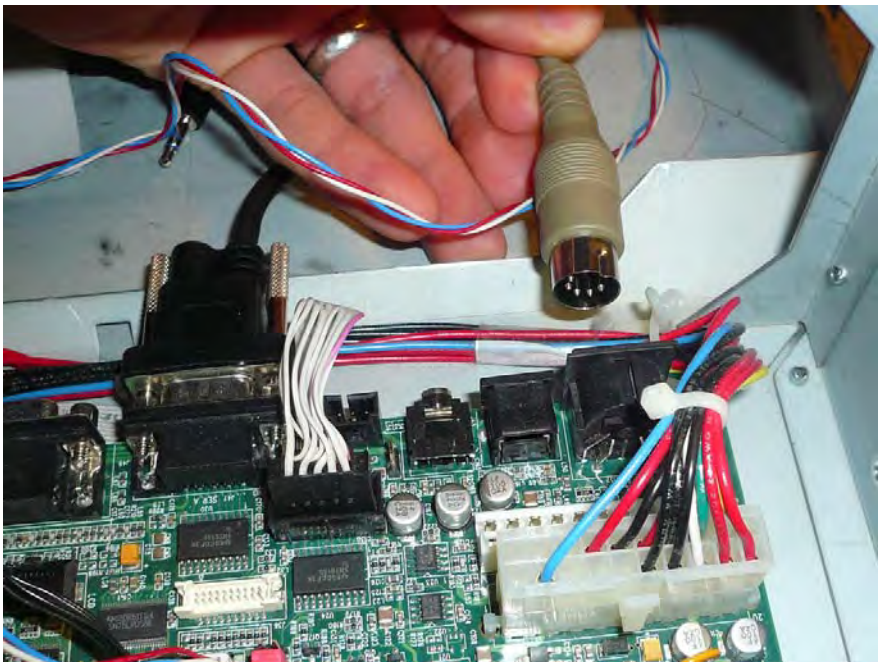

Figure 4-6. Disconnect the keyboard cable from J42 of the motherboard

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8. Disconnect the touch screen data cable from J2 on the motherboard:

Figure 4-7. Disconnect the touch screen data cable from J2 of the motherboard

9. Disconnect the inverter cable (backlight) from J32 on the motherboard.

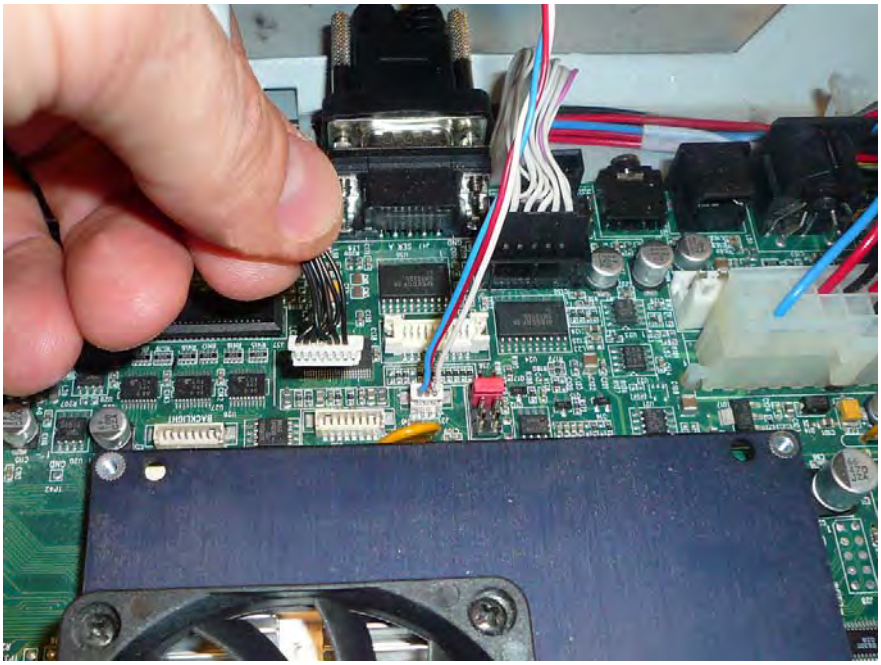

Figure 4-8. Disconnect the backlight cable from J32 of the motherboard

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10. Disconnect the brightness control cable from J31 on the motherboard.

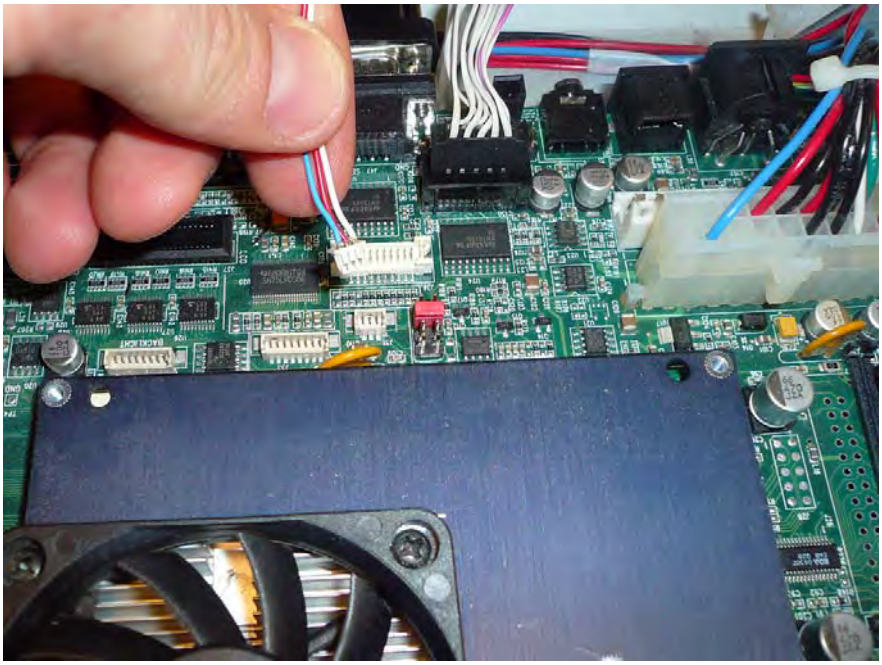

Figure 4-9. Disconnect the contrast cable from J31 of the motherboard

11. Disconnect the LCD data cable from J37 on the motherboard

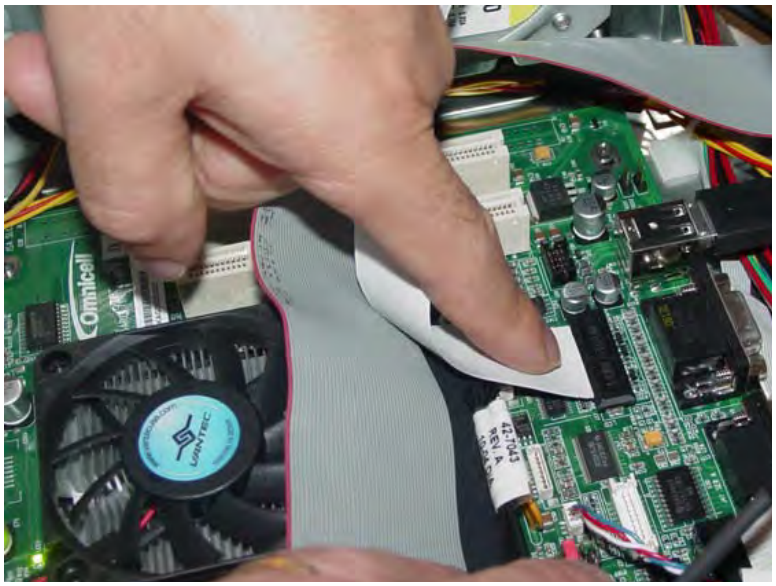

Figure 4-10. Disconnect the LCD data cable from J37 of the motherboard

12. Disconnect any USB devices from the OmniRx.

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13. Remove the existing lid from the OmniRx.

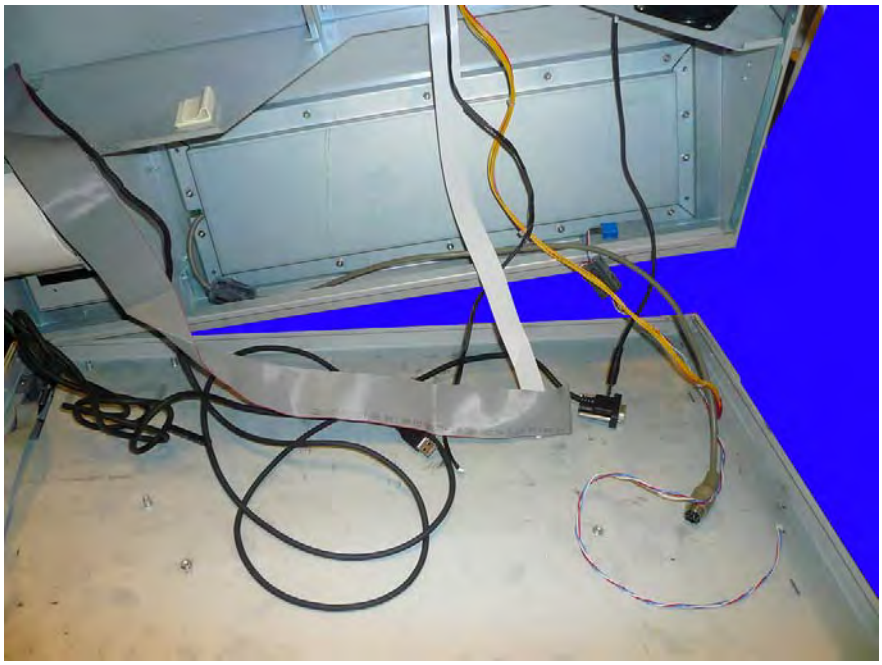

Figure 4-11. Remove the OmniRx lid

Remove the Sled

1. Loosen and remove the thumbscrews that secure the tray to the OmniRx frame.

Figure 4-12. Remove the thumb screws that secure the CT PC tray

2. Remove the CTPC tray from the OmniRx.

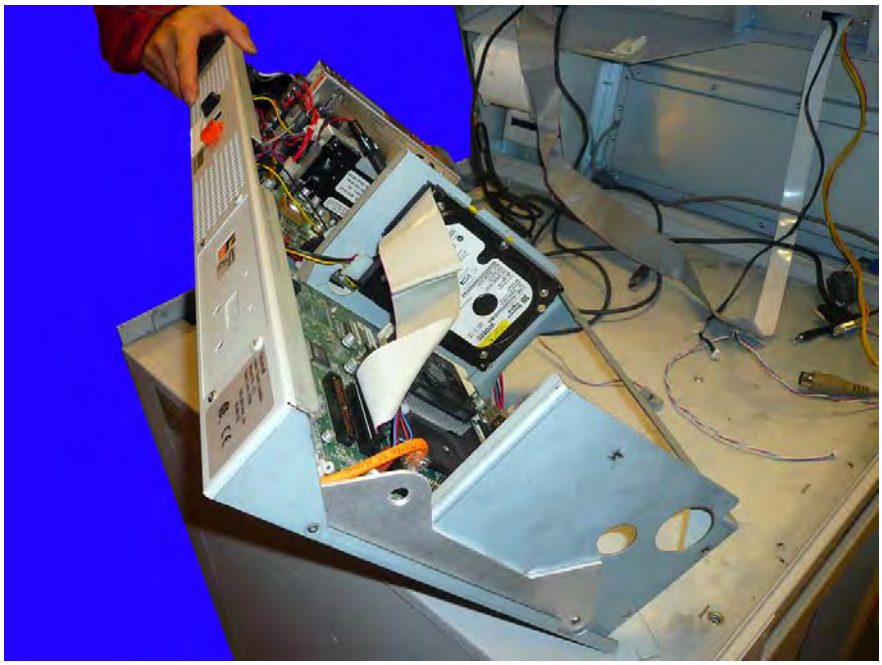

Figure 4-13. Remove the sled

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Prepare the OmniRx for Install of the G4

1. Clean the exposed OmniRx surface. Ensure that the surface is flat and smooth. Remove any large objects from the surface. Use a towel to wipe off any dust or small objects that may have been left behind.

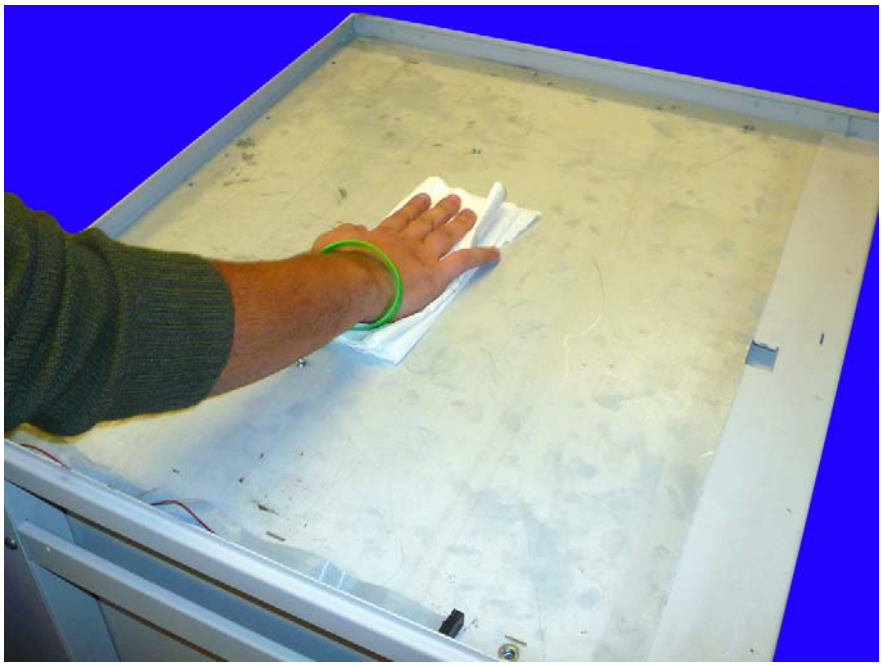

Figure 4-14. Clean the OmniRx surface

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2. Use a pair of pliers and grab the lid alignment tab as close to the base of the OmniRx frame as possible.

Important: Ensure that the tab breaks off as close to the frame lid as possible.

Figure 4-15. Bend the lid alignment tab using a strong pair of pliers

3. Bend the lid alignment tab back and forth until it breaks free from the frame.

Figure 4-16. Break off the lid alignment tab

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4. Place kapton tape over the opening, which will cover the jagged edge.

Figure 4-17. Cover the opening with tape

5. Use your finger, a screw driver or any other tool that will work and bend the tape into the underside of the opening.

Figure 4-18. Fold the tape under and secure it to the underside of the frame

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6. Remove the four screws that secure the printer tray to the frame.

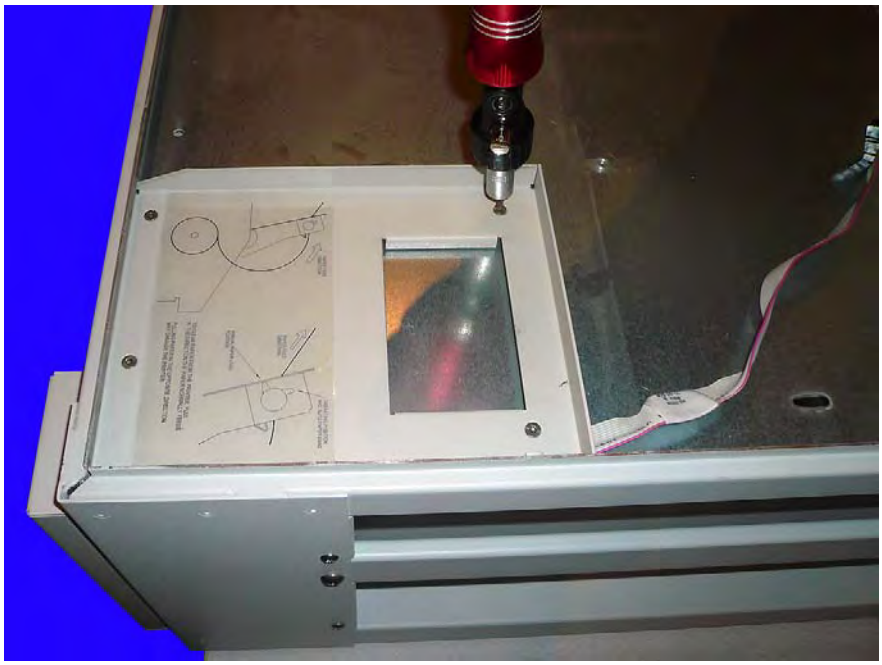

Figure 4-19. Remove the screws that secure the printer tray

7. Remove the printer tray from the frame.
8. Secure the override cable underneath the side rail of the Rx frame to ensure that it does not get pinched when installing the G4 console. If it will not stay, use tape to keep it secured.

Figure 4-20. Secure the override cable under the side of the Rx frame

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9. Ensure the wireway cable is out of the way of the surface so that it is not pinched or damaged when the G4 sled is added.

Add the G4 Console

1. Lift the G4 console onto the OmniRx frame, leaving the wireway cable exposed.

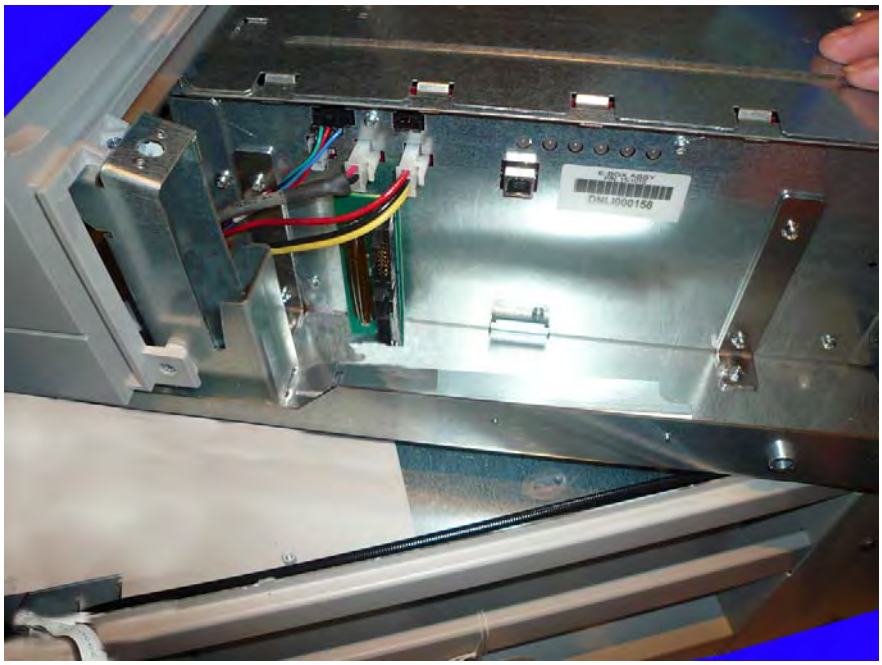

Figure 4-21. Place the G4 console on the OmniRx with the wireway cable free

2. Feed the wireway cable through the side of the console frame.

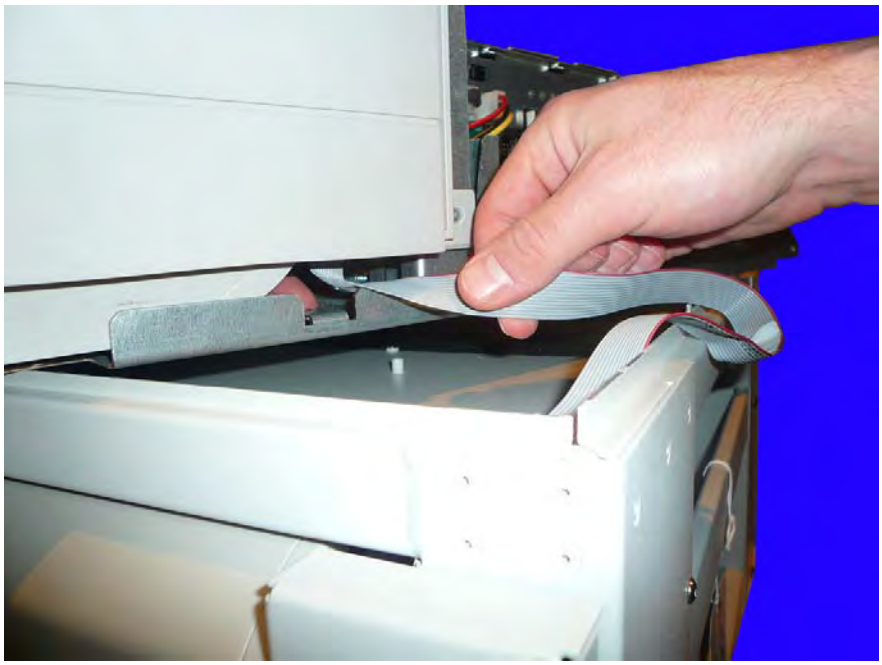

Figure 4-22. Feed the wireway cable through the side of the G4 sled

3. Pull the wireway cable through the rear of the console opening.

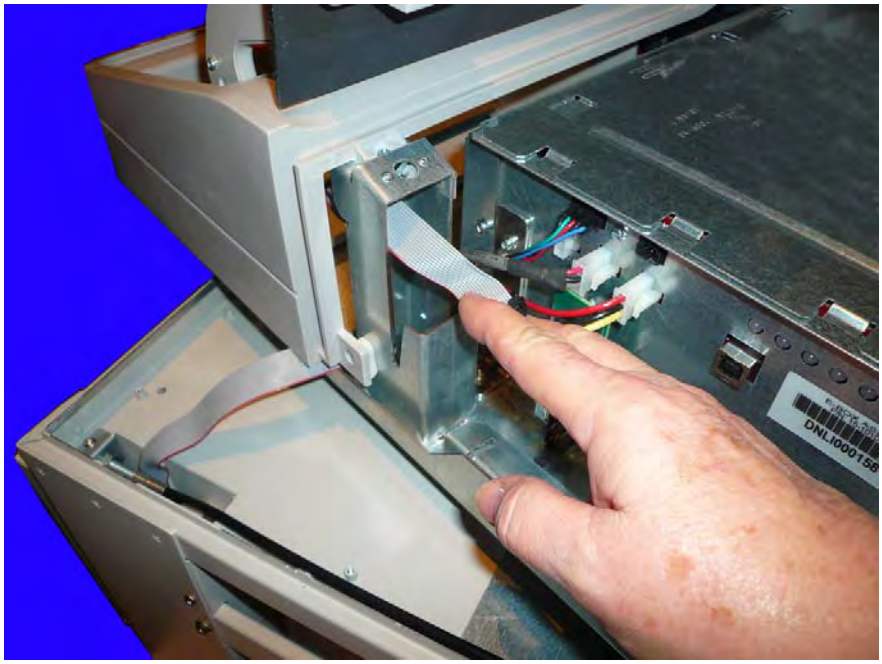

Figure 4-23. Pull the wireway cable through the rear of the sled

4. Align the ebox with the top of the OmniRx frame. Pull the wireway cable taut while aligning system to ensure that it does not get pinched by the new sled.

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5. Connect the wireway cable to the cable adapter card on the side of the eBox.

Important: The wireway cable connector is notched on one side and the wireway card connection has a cutout for that notch. Align the notch on the cable connector with the card connection to connect the cable.

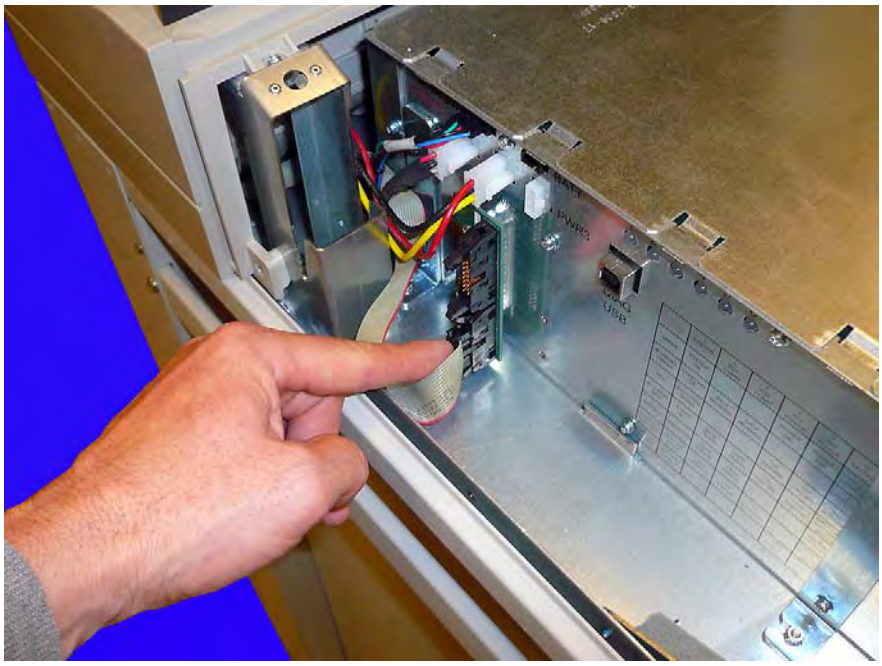

Figure 4-24. Connect the wireway cable to the adapter card on the eBox

Secure the Console to the OmniRx frame

Once the eBox cables are securely connected, the next step will be to secure the G4 console to the OmniRx frame. There are two screws and two fasteners that need to be tightened to secure the console to the frame.

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1. Twist the quarter-turn wingnut fasteners to secure the G4 console to the frame base.

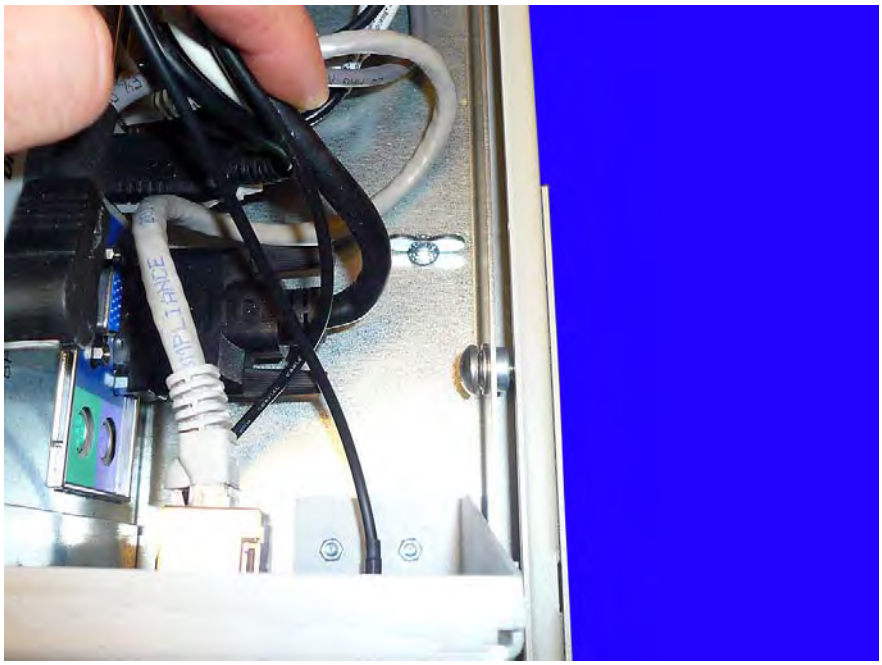

Figure 4-25. Turn the right side wingnut fastener to secure the console to the base

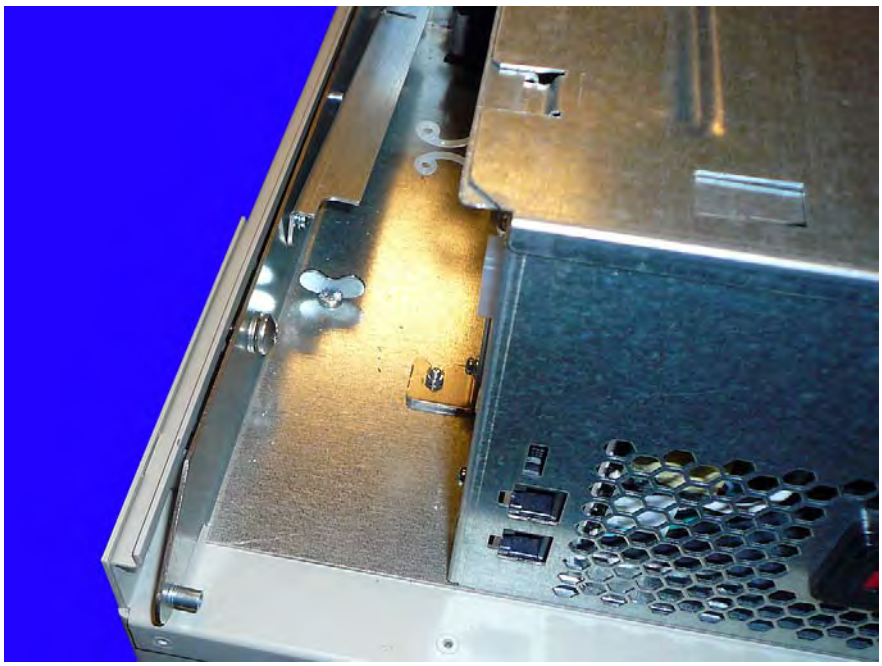

Figure 4-26. Turn the left side wingnut fastener to secure the console to the base

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2. Secure the screw in the right rear of the console. Use a small ratchet and a Torx T30 bit.

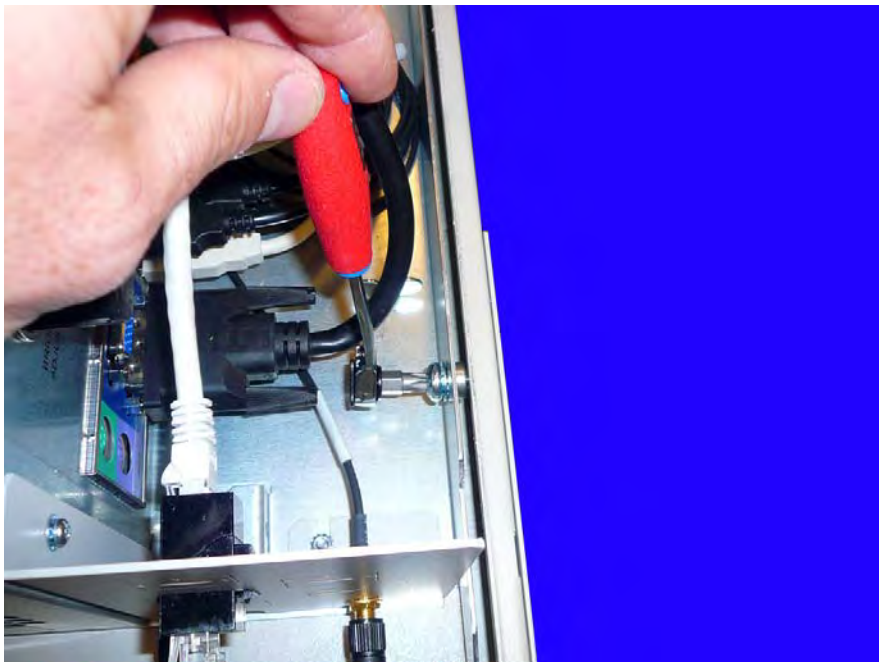

Figure 4-27. Secure the right side of the G4 console to the OmniRx frame

3. Secure the screw in the left rear of the console. Use a small ratchet and a Torx T30 bit.

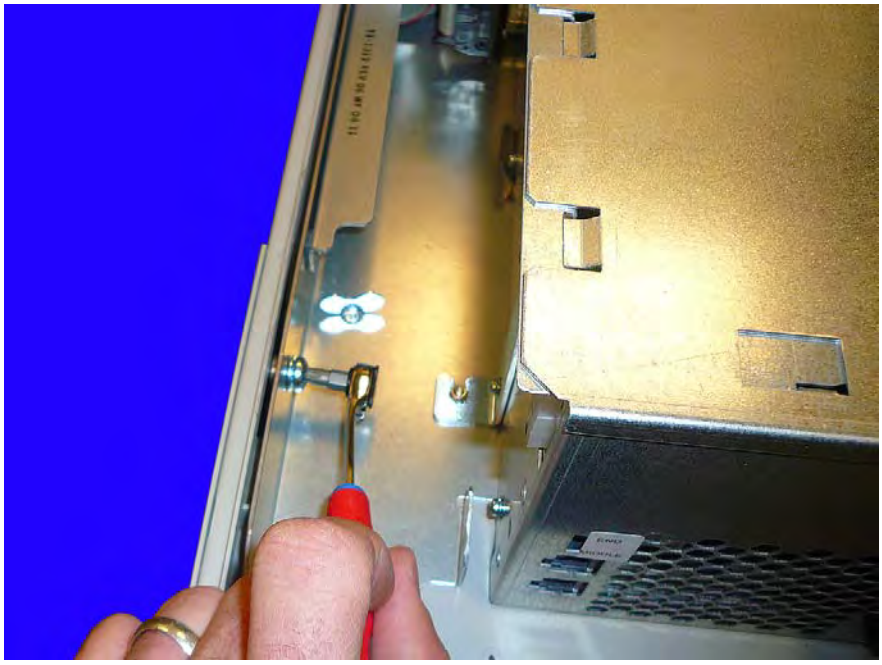

Figure 4-28. Secure the left side of the OniRx G4 console to the frame

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4. Add the two screws in the printer bay that secure the console to the frame.

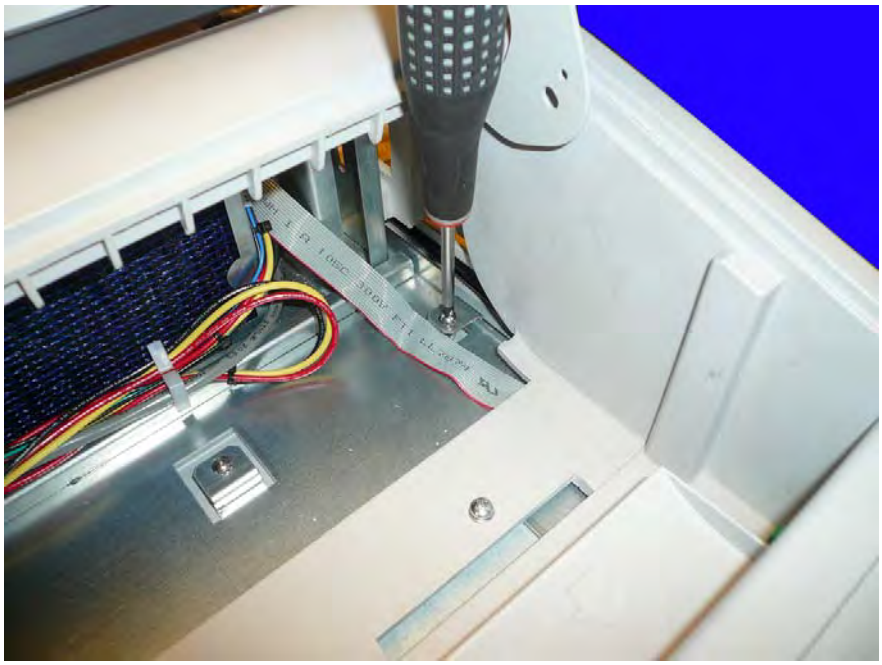

Figure 4-29. Secure the console to the frame

Insert Printer Shelf

1. Load the shelf into the printer bay, as shown in Figure 4-30. Place the bottom side in first and then roll the top half back toward the rear of the printer bay opening.

Figure 4-30. Load printer shelf into the bay

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2. Roll the shelf back toward the back of the printer bay and slide the two guides into place underneath the shelf supports.

Figure 4-31. Ensure the guides are secure underneath the shelf supports

3. Ensure that the shelf snaps into place and then close the printer lid.

Install the Battery

Once the G4 console with eBox is installed on the OmniRx, the battery must be installed and connected.

1. Remove the three screws that secure the eBox lid to the eBox.

Figure 4-32. Remove the screws that secure the ebox lid

2. Remove the eBox lid by sliding it toward the side of the eBox with the USB ports then lift.
3. Place the battery inside the eBox. Make sure the velcro straps are not caught between the battery and the support wall.

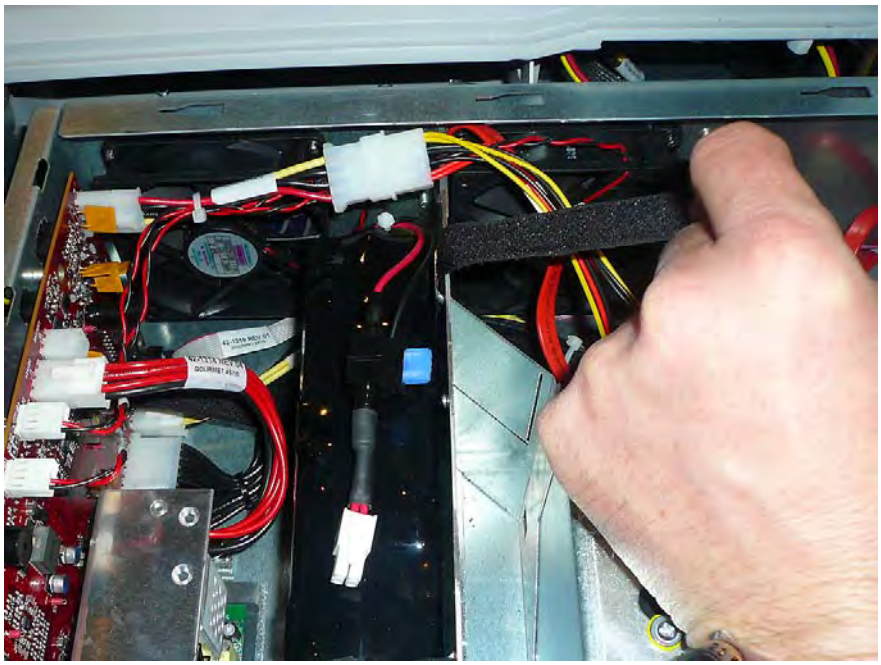

Figure 4-33. Move the velcro straps out of the way before installing the battery

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4. Connect the battery to J2 on the PowerCom4 board.

Figure 4-34. Connect the battery cable to the PowerCom4 board

5. Check the other connections on the PowerCom4 board to ensure they have not come loose.
6. Slide the top velcro straps through the bottom support straps and tighten the velcro straps to secure the battery to the eBox wall.

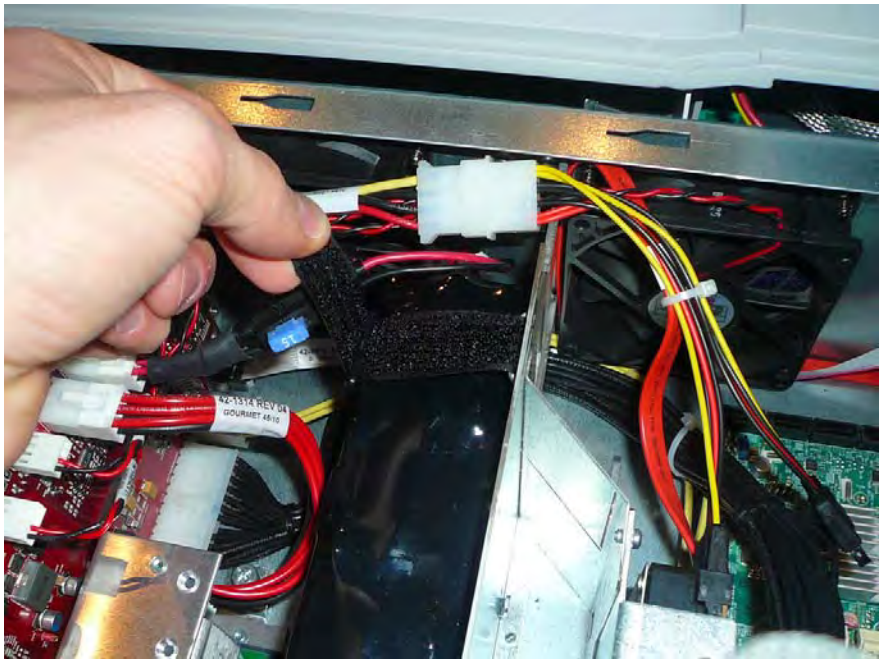

Figure 4-35. Tighten the velcro straps to secure it to the eBox

7. Replace the lid on the eBox.

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8. Replace the three screws that were previously removed to secure the lid to the eBox.

Replace the G4 OmniRx Lid

Once the G4 console and the eBox are successfully installed, the OmniRx lid needs to be installed.

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1. Lift the OmniRx lid onto the back of the machine and set the lid down, ensuring that it rests on the console frame pegs.

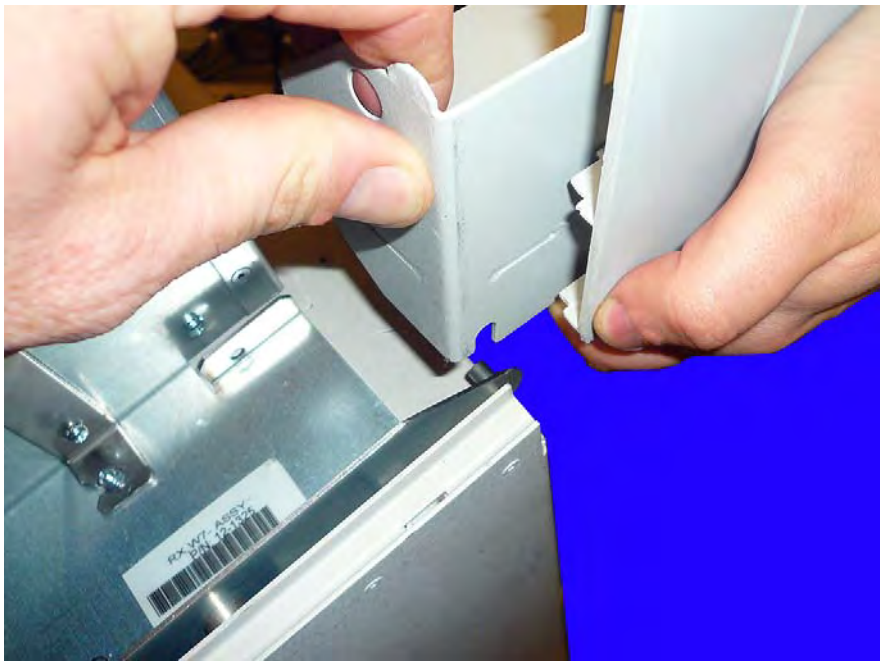

Figure 4-36. Place the lid onto the pegs on the frame of the OmniRx

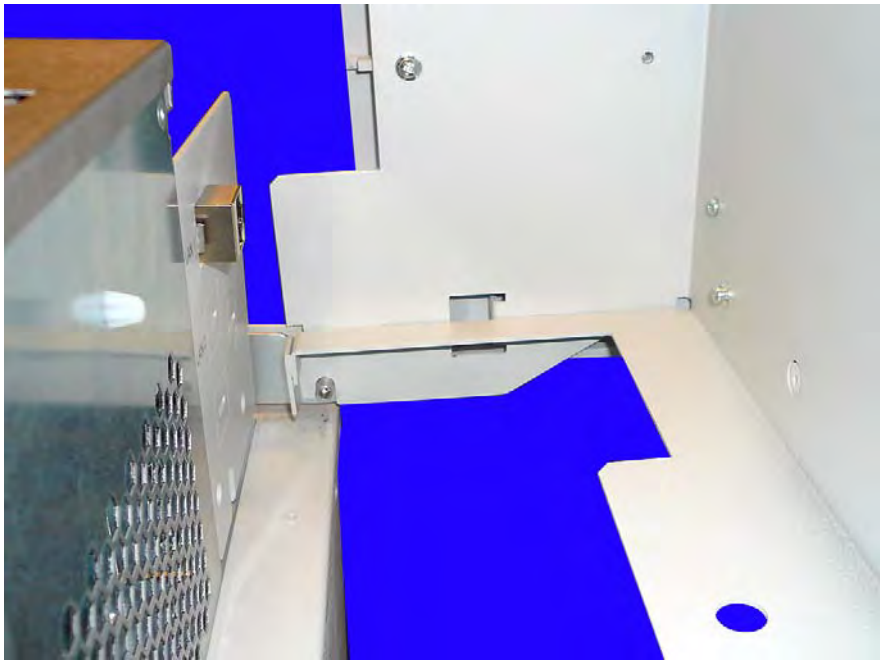

Figure 4-37. Set the lid down on the frame pegs

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2. Set the lid down gently and use the #2378 cam lock key to lock the lid.

Figure 4-38. Close and lock the lid

3. Plug the OmniRx into a medical-grade power outlet and power on the system.
4. Test the system to ensure it is working properly.

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OmniRX G4 Service Guide

Introduction

This section will describe how to remove and replace the FRU-level parts in an OmniRx with G4 components installed, including the E-Box, the monitor, the keyboard and the printers.

Remove the OmniRx Lid

1. Perform a graceful shutdown of the OmniRx.
2. Use key #2378 to unlock the lid.

Figure 5-1. Unlock the lid

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3. Lift the lid up. Do not let go of the lid as it lifts.

Important: Do not let go of the lid as it lifts. It is not attached to the OmniRx and will fall if it is released after it is lifted up from the backside of the OmniRx. This could damage the lid or the system.

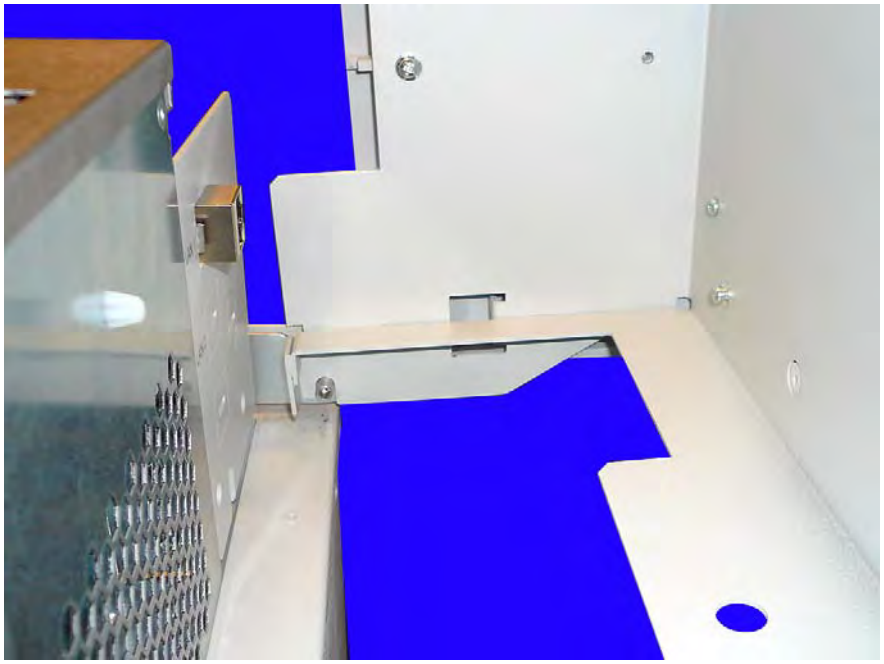

Figure 5-2. Remove the lid

4. Lift the lid from the OmniRx and set it aside.

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Remove the Keyboard

1. Remove the two screws on the under side of the OmniRx G4 console that secure the keyboard.

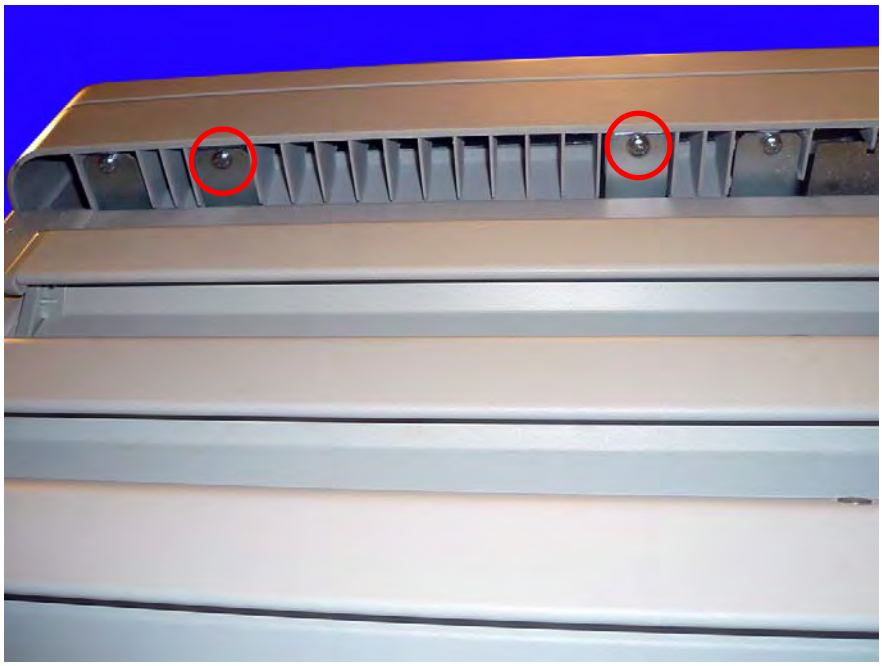

Figure 5-3. Remove the bottom two keyboard screws

2. Remove the cosmetic cover on the front of the keyboard tray.

Figure 5-4. Remove the cosmetic cover on the front of the OmniRx

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3. Remove the four screws on the keyboard tray that secure the keyboard to the console.

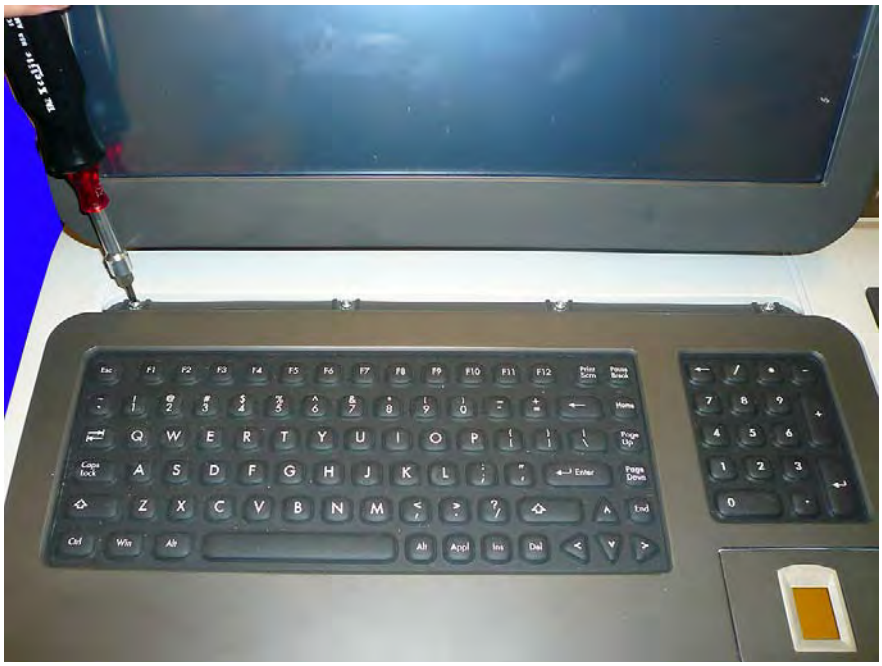

Figure 5-5. Remove the top four screws that secure the keyboard

4. Lift and remove the keyboard from the G4 console. Set the keyboard aside.

Figure 5-6. Lift and remove the keyboard

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5. Remove the nut that secures the keyboard ground cable.

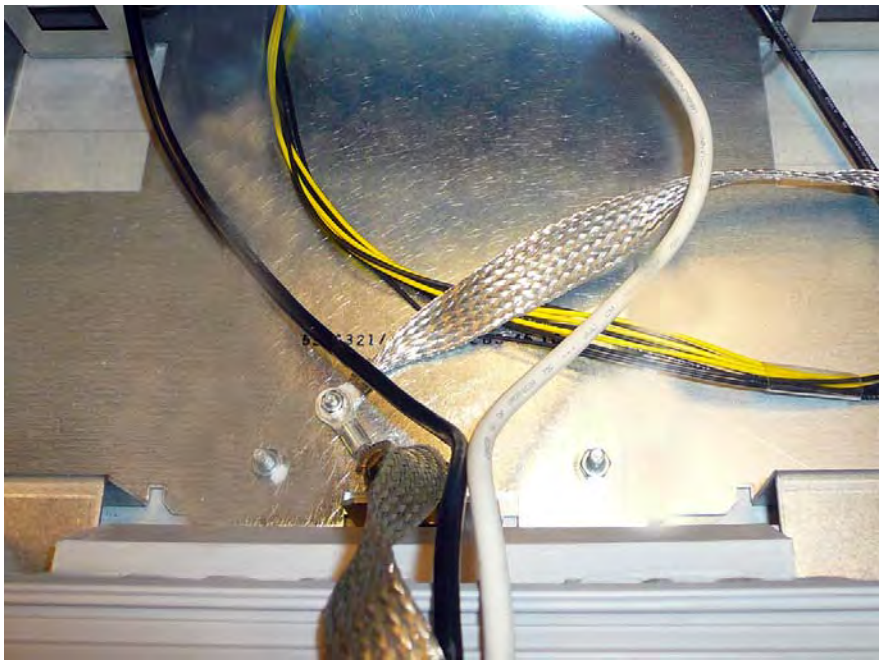

Figure 5-7. Remove the keyboard ground cable nut

6. Remove the ground cable.
7. Disconnect the Fingerprint scanner USB cable (if present) and the keyboard cable from the side of the E-Box.
8. Remove the keyboard from the OmniRx.

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Remove the Monitor

1. Remove the four nuts that secure the monitor to the OmniRx frame. Use a 5mm nut driver.

Figure 5-8. Remove the nuts that secure the monitor to the OmniRx G4 console

2. Lift the monitor stand from the front two screw pegs first, ensuring that the monitor clears the screw pegs.

Figure 5-9. Lift the monitor stand up from the front first

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3. Reach down and lift the monitor up from the base and move it back toward the back of the OmniRx.

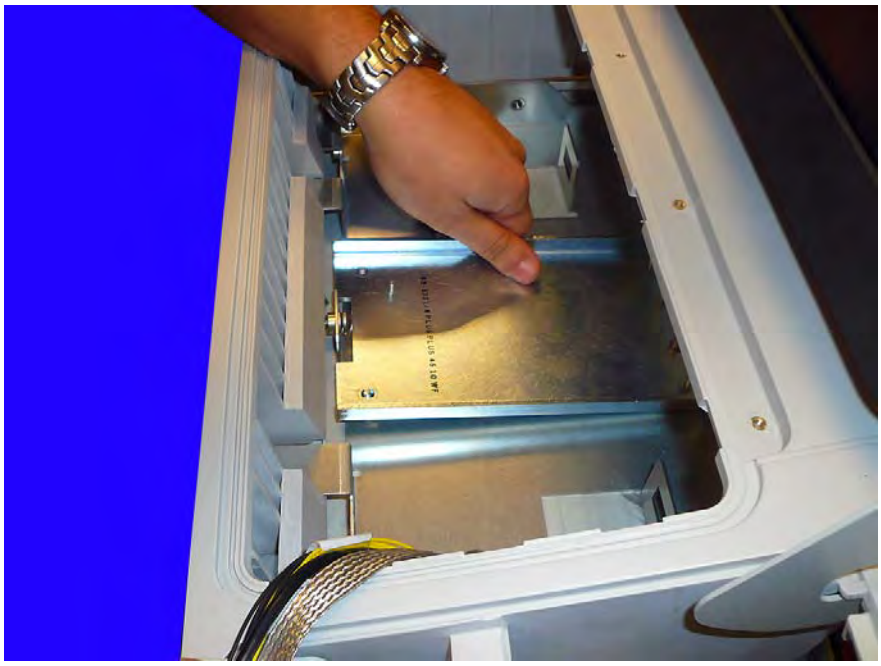

Figure 5-10. Align the monitor stand

4. Lift the AIO up and out of the OmniRx.

Remove the E-Box

1. Disconnect any remaining USB and audio cables from the E-Box.

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2. Disconnect any power cables from the E-Box.

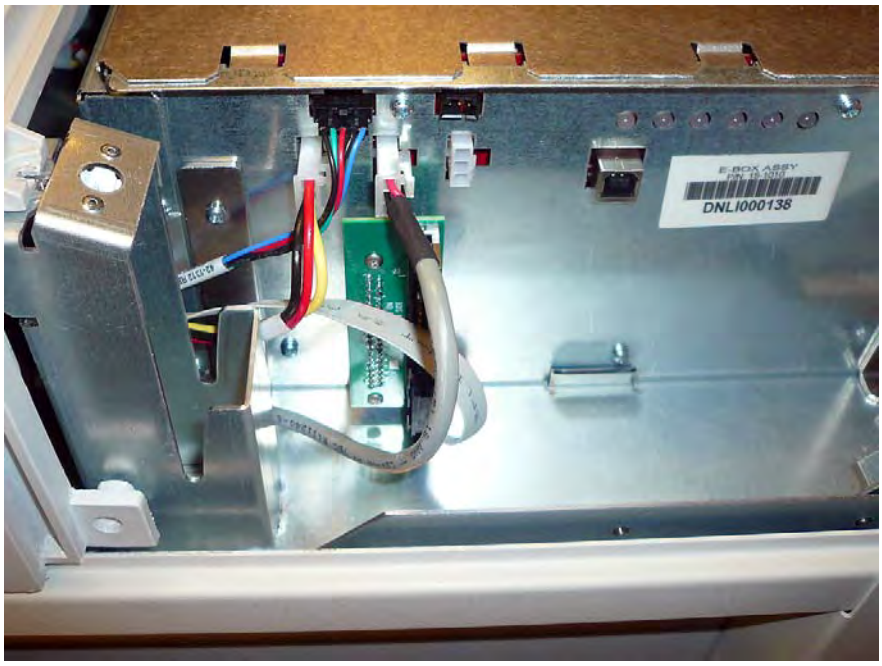

Figure 5-11. Disconnect any power cables from the E-Box.

3. Disconnect the wireway cable from the E-Box.

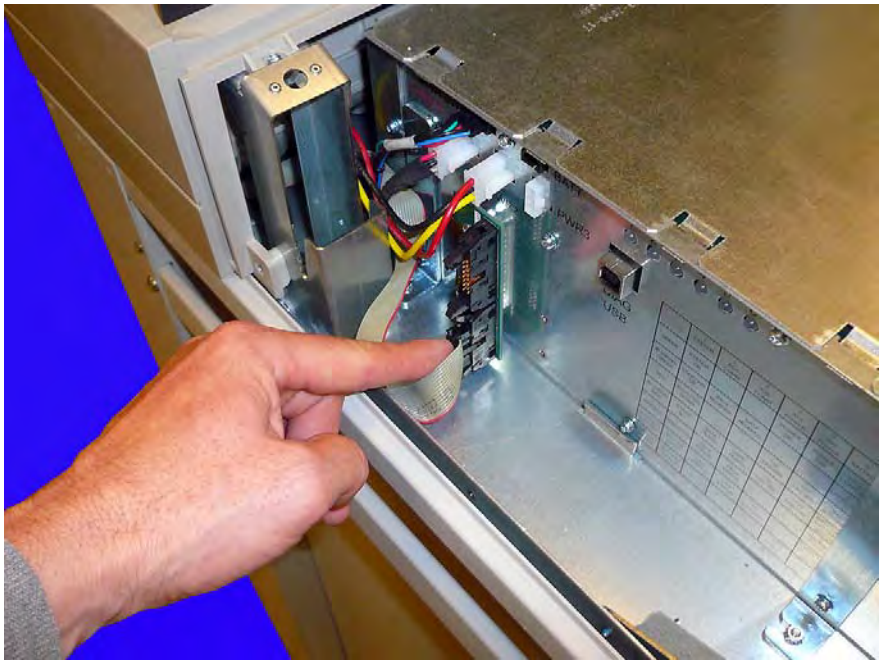

Figure 5-12. Disconnect the wireway cable

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4. Loosen the two screws on the right-hand side of the E-Box that secure the E-Box to the OmniRx frame.

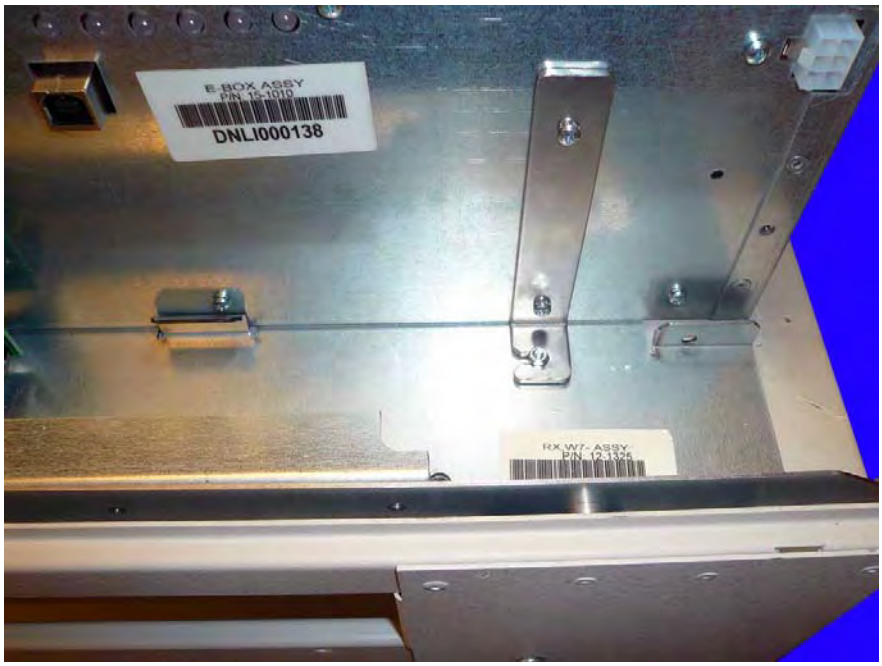

Figure 5-13. Loosen the screws that secure the E-Box t the OmniRx frame

5. Loosen the two screws securing the bracket on the left-hand side of the E-Box.

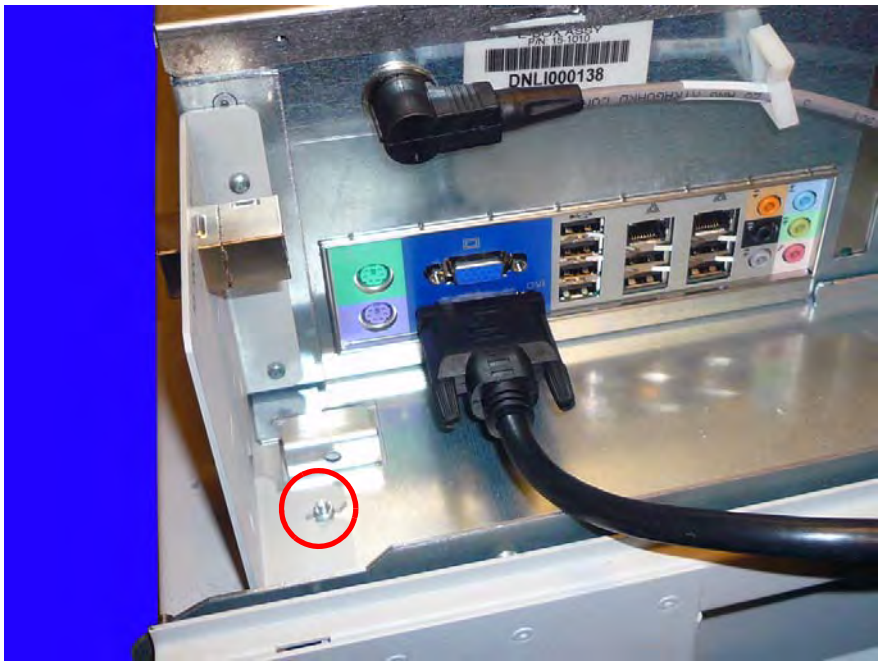

Figure 5-14. Loosen the bracket screw

6. Slide the E-Box back toward the rear of the OmniRx to free the brackets from the bolts.

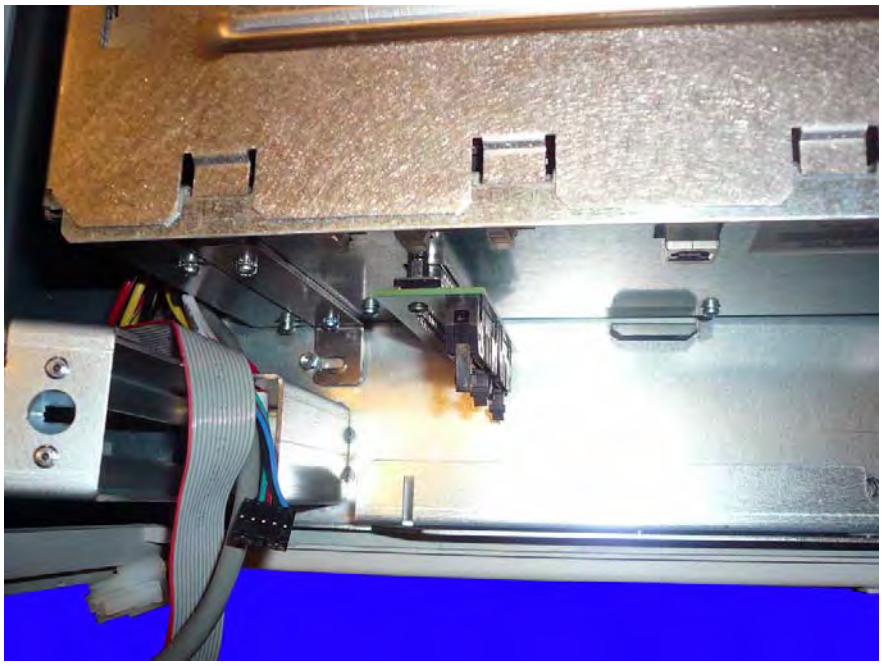

Figure 5-15. Slide the E-Box back

7. Lift the E-Box and remove it from the OmniRx.

Remove the Printer Bay

1. Open the printer door.

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2. Pull the platen lever up and pull the receipt paper from the printer.

Figure 5-16. Open the platen level

3. Remove the paper from its holder.

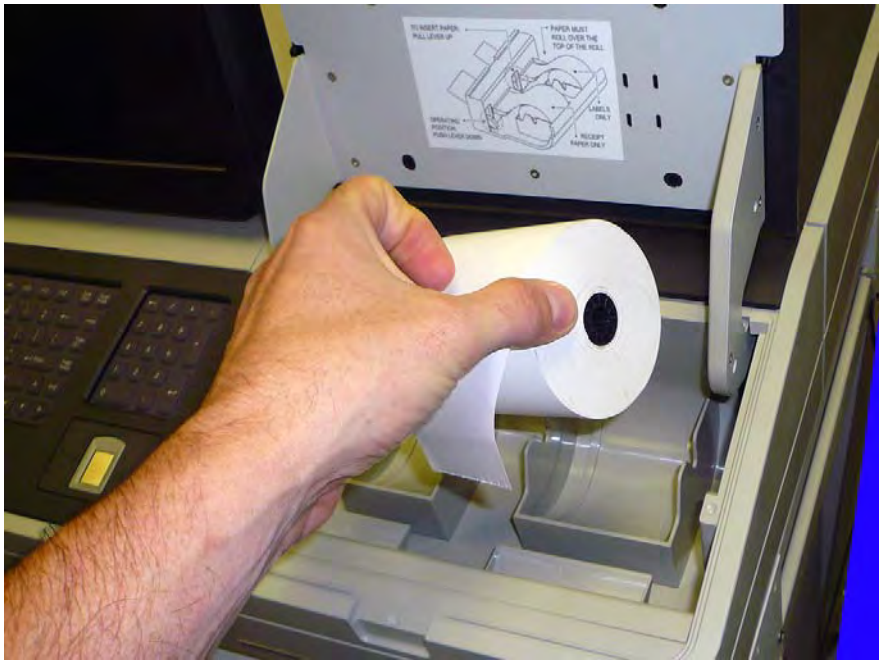

Figure 5-17. Remove the receipt printer paper

4. Remove the paper tray from the OmniRx.

Figure 5-18. Remove the paper tray

Remove the OmniRx Sled

1. Remove the screw in the printer bay that secures the OmniRx sled to the frame.

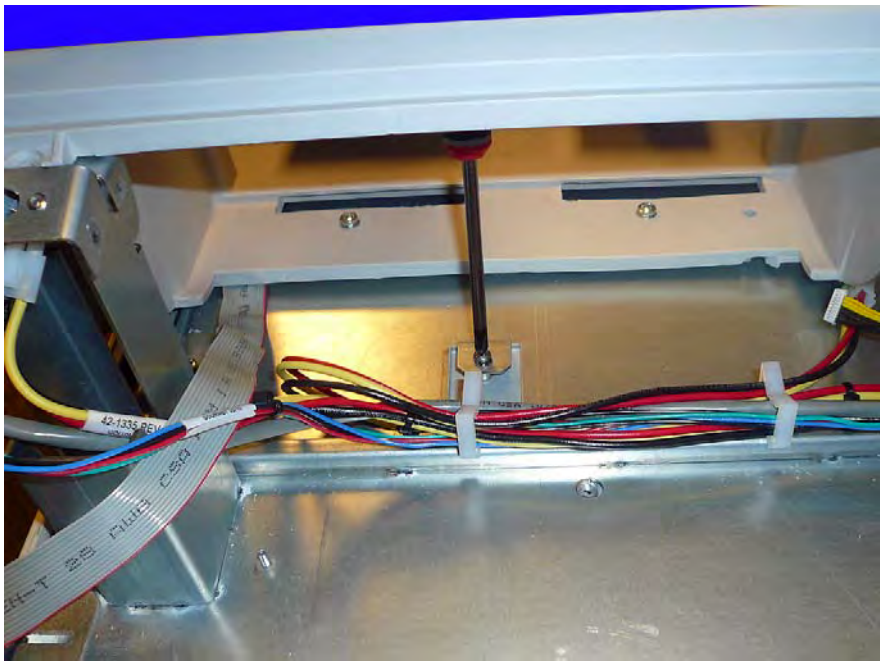

Figure 5-19. Remove the screw that secures the sled to the Rx frame

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2. Remove the two screws that secure the sled to the OmniRx frame on the back of the sled.

Figure 5-20. Remove the screw on the right rear side of the sled

Figure 5-21. Remove the screw on the left rear side of the sled

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3. Remove the screw located behind the printer bay that secures the sled to the Rx frame.

Figure 5-22. Remove the screw that secures the Rx sled to the frame

4. Lift the OmniRx sled up and remove it from the frame.

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Set the G4 Sled on the OmniRx Frame

1. Lift the G4 console onto the OmniRx frame. Ensure that the wireway cable is laid over the edge of the frame and available.

Figure 5-23. Place the G4 console on the OmniRx with the wireway calbe free

2. Feed the wireway cable through the back of the console frame.

Figure 5-24. Feed the wireway cable through the back of the G4 sled

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3. Bring the wireway cable out through the back of the G4 console.

Figure 5-25. Bring the wireway cable through the back

4. Organize the wires on the G4 console so that they are clear of the surface area where the E-Box will be placed. Use the clips provided.

Important: Ensure that the two E-Box screw threads are accessible.

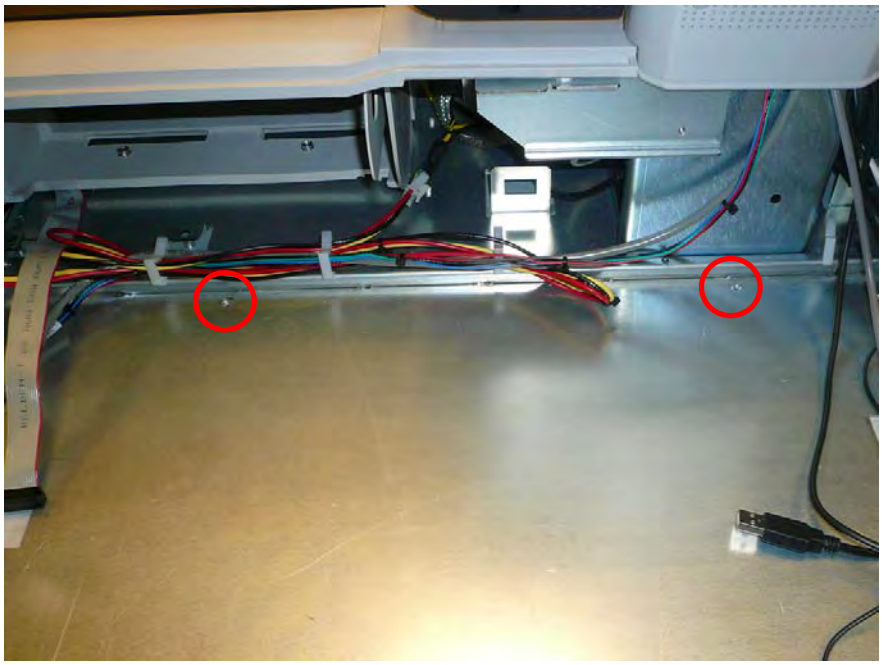

Figure 5-26. Organize the console wires

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5. Replace the screw in the printer bay that secures the OmniRx sled to the frame.

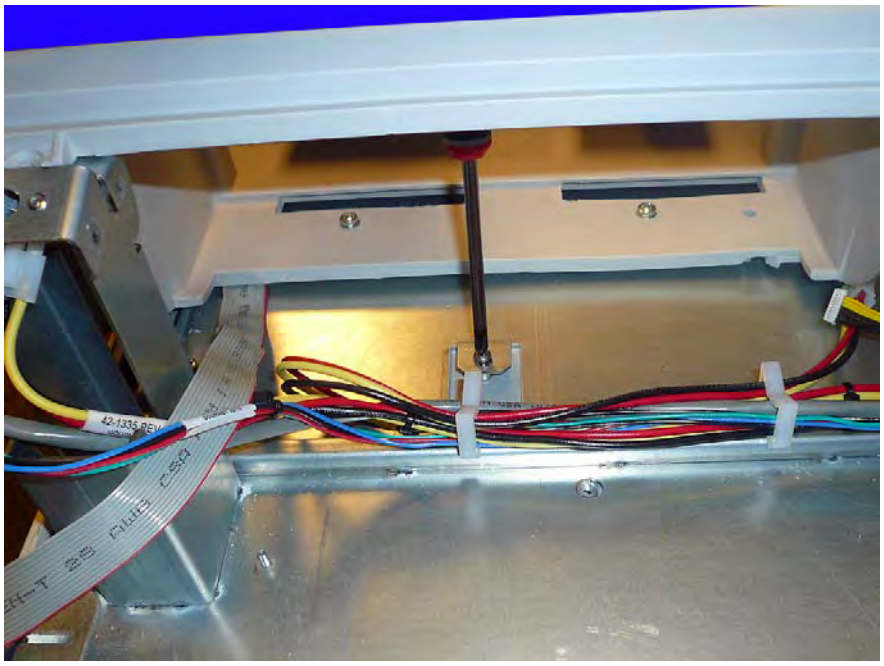

Figure 5-27. Replace the screw that secures the sled to the Rx frame

6. Replace the two screws that secure the sled to the OmniRx frame on the back of the sled.

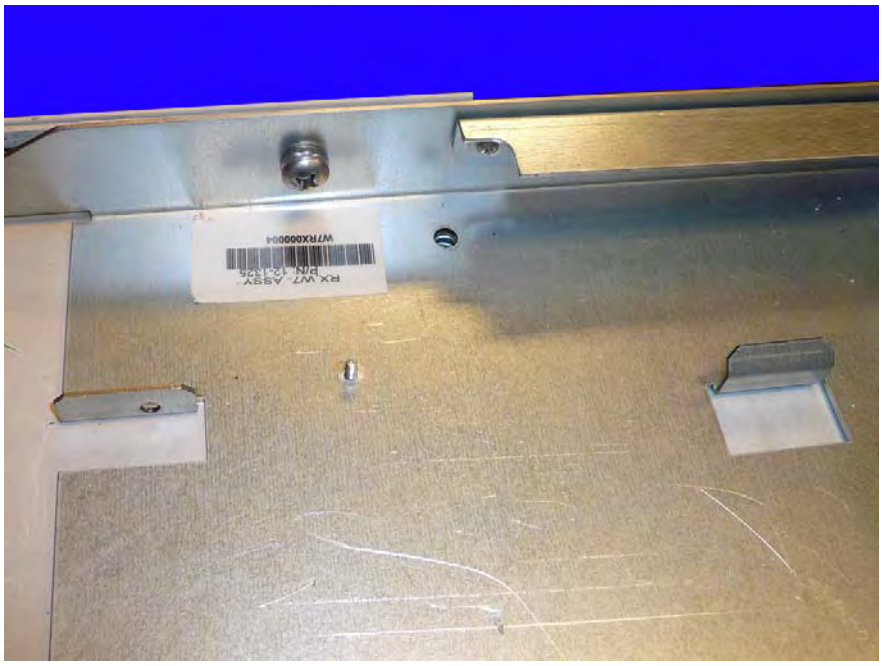

Figure 5-28. Replace the screw on the right rear side of the sled

Figure 5-29. Replace the screw on the left rear side of the sled

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7. Replace the screw located behind the printer bay that secures the sled to the Rx frame.

Figure 5-30. Replace the screw that secures the Rx sled to the frame

Replace the Components od the OmniRx Sled

Install the Touch-Screen Monitor

Install the Monitor

1. Set the monitor in place in the G4 Console. Ensure that the monitor clears the locking mechanism and sets down with all four protruding screws fitting through the respective holes in the stand.

Figure 5-31. Align the monitor stand

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Figure 5-32. Place the monitor stand

2. Secure the monitor using the four nuts provided.

Figure 5-33. Secure the monitor to the OmniRx G4 console

Replace the Keyboard

1. Feed the USB and power cables through the rear opening in the G4 console frame.

Figure 5-34.

2. Replace the ground cable and secure it with the nut that was previously removed.

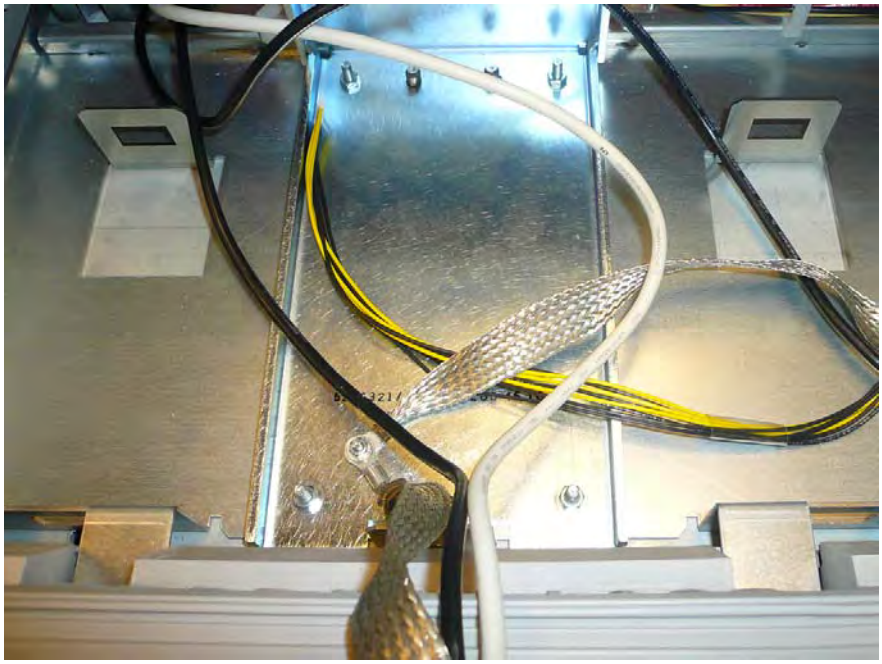

Figure 5-35. Connect the ground cable

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3. Set the keyboard back into place and secure the top four screws that had previously been replaced.

Figure 5-36.

4. Replace the cosmetic cover.

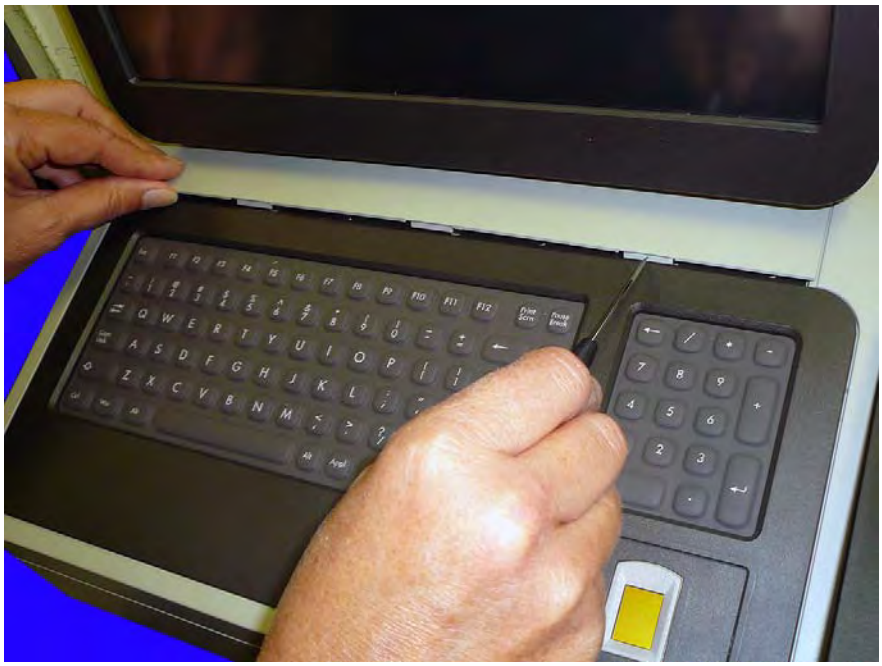

Figure 5-37. Replace the cosmetic cover

5. Replace the bottom two screws.

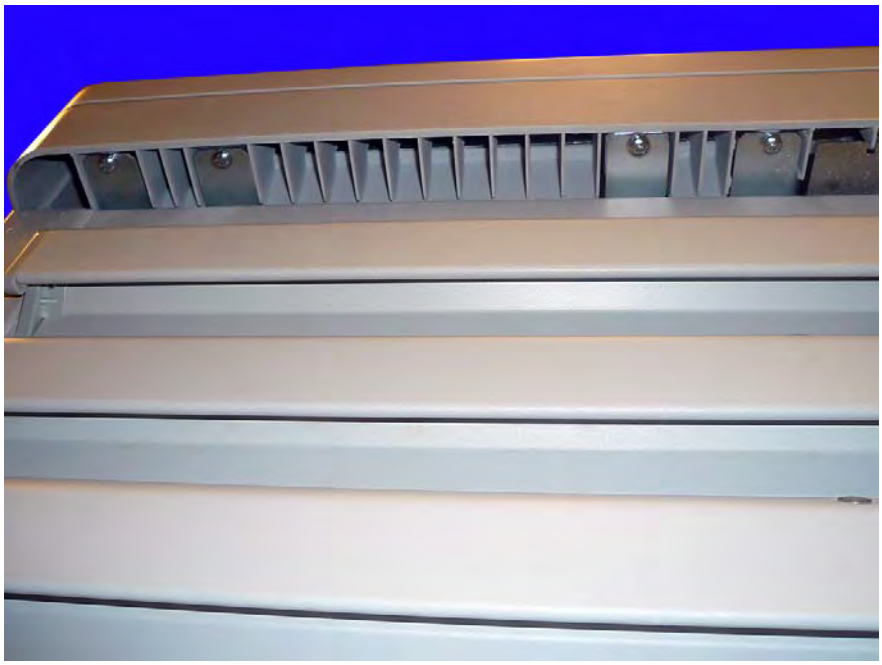

Figure 5-38. Replace the two screws

Replace the E-Box

Prepare the E-Box

Before the E-Box can be placed into the G4 console, brackets need to be added and a wireway cable adapter plate needs to be included with the box.

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1. Add the wireway adapter card to the E-Box.

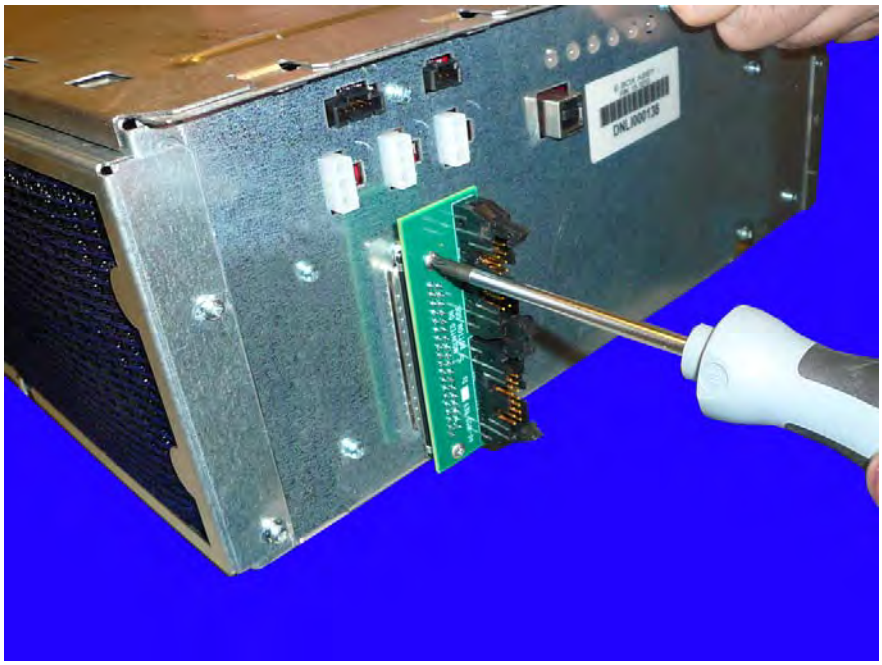

Figure 5-39. Add the wireway adapter card

2. Add a bracket to the front and rear side of the E-Box that contains the wireway adapter card.

Figure 5-40. Add the first set of brackets to the E-Box

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3. Add a bracket to the side of the E-Box that contains the USB ports and the keyboard connectors.

Figure 5-41. Add the second bracket to the E-Box

4. Add the external ERB cable connector to the second bracket.

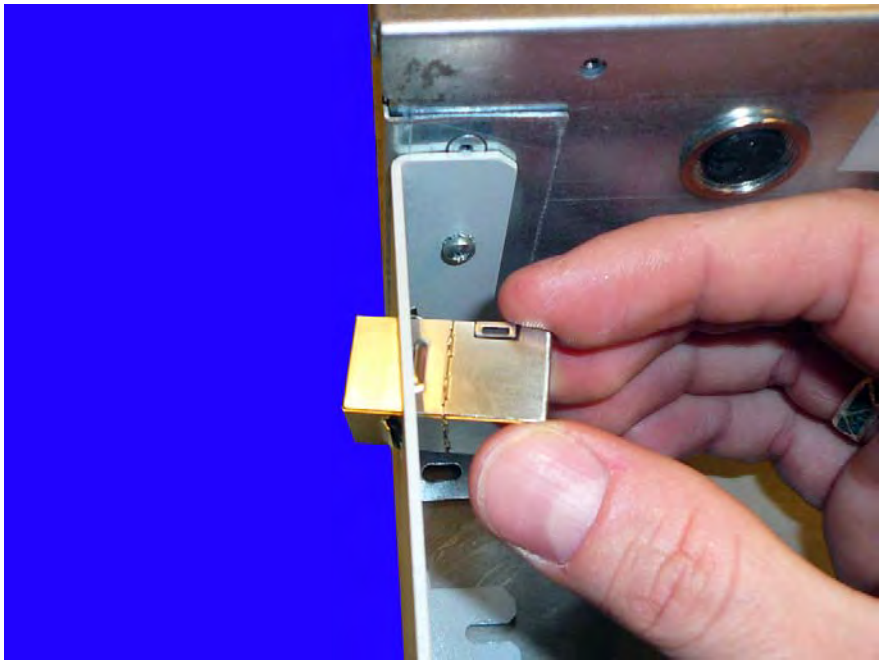

Figure 5-42. Add the ERB connector

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Add the E-Box

1. Place the two nuts onto the screw threads at the front of the E-Box enclosure area.

Important: Do not tighten the nuts yet

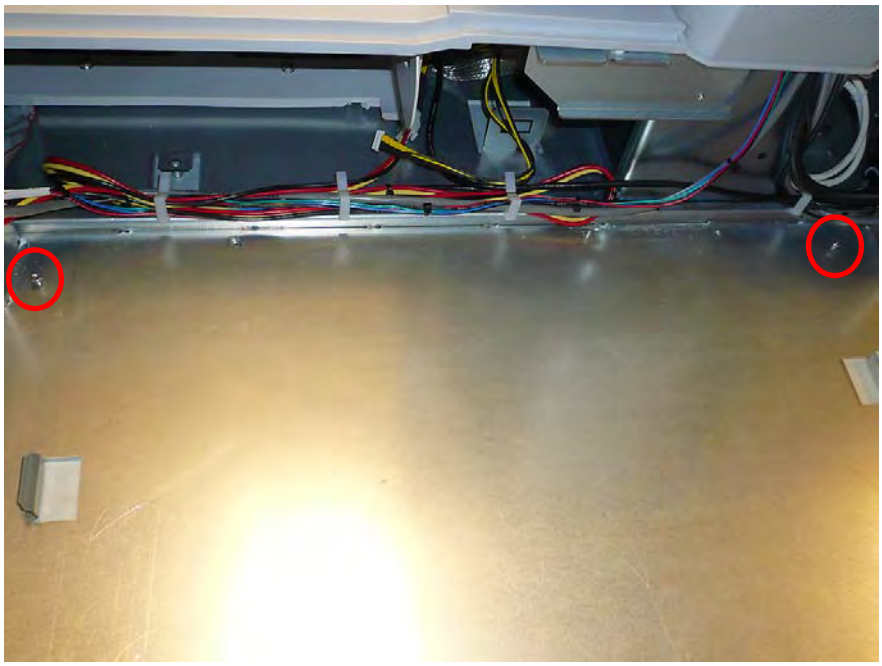

Figure 5-43. Place the two nuts

Figure 5-44. Route the cables

2. Set the E-Box onto the G4 console. Ensure that the brackets slide into place around the support screws.

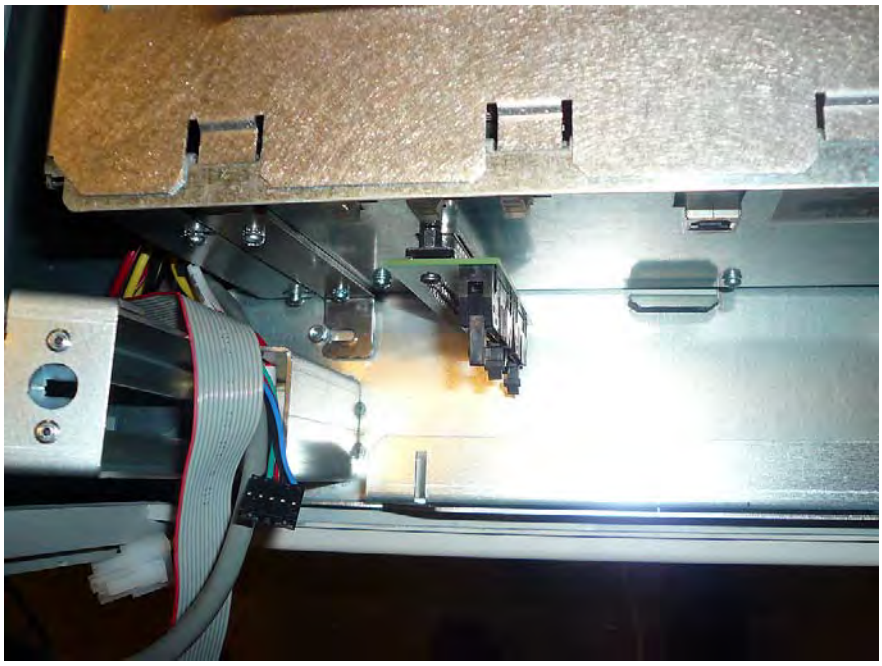

Figure 5-45. Set the E-Box in place

Figure 5-46. Ensure the Box is lined up

3. Tighten the nuts to secure the E-Box to the G4 console.

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4. Connect the wireway cable. The cable is notched, so it will only fit into the adapter one way. do not force the cable as it may damage the adapter.

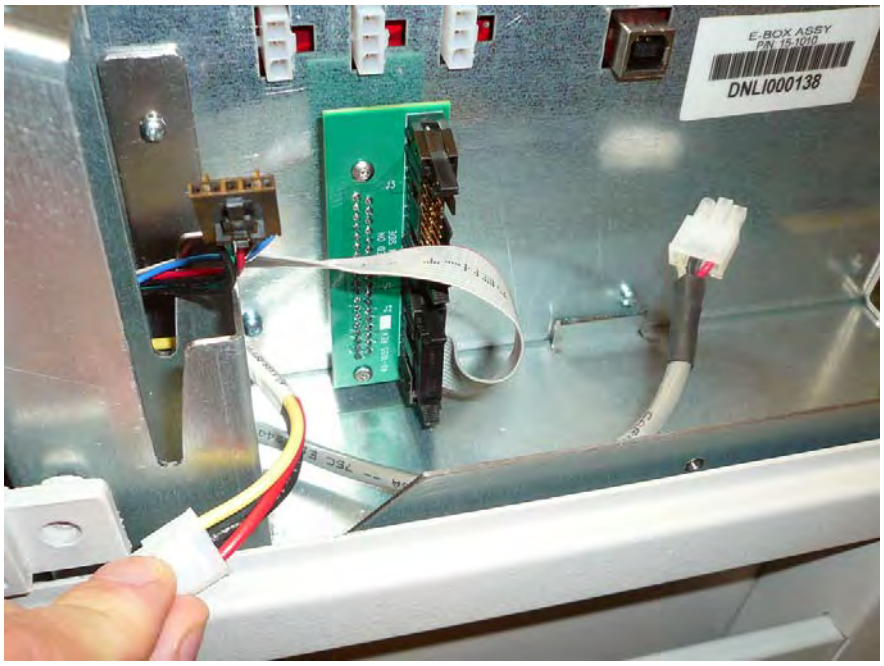

Figure 5-47. Connect the wireway cable

5. Connect the LED cable.

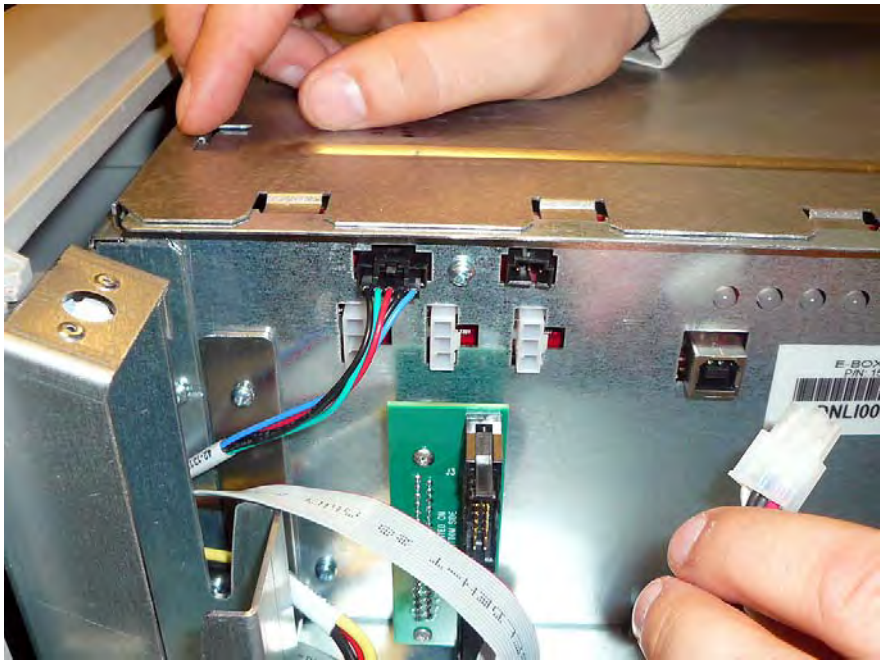

Figure 5-48. Connect the LED cable

6. Connect the two power cables. It does not matter which cable goes into which molex connector.

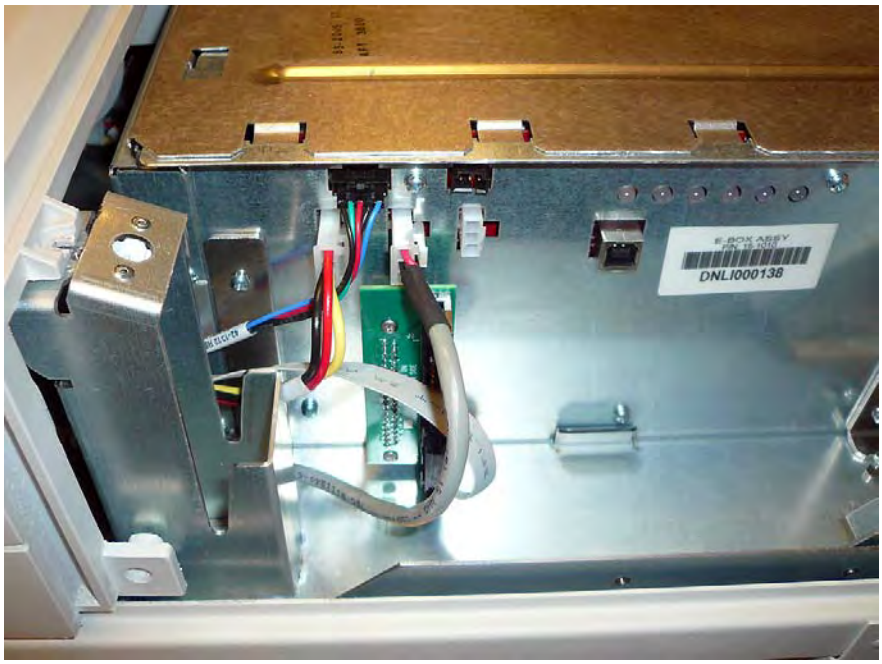

Figure 5-49. Connect the Power Cables

7. On the other side of the E-Box, connect the video cable and the data cable.

Figure 5-50. Connect all other cables

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8. Connect the audio cable.

Figure 5-51. Connect the audio cable

9. Connect the four USB cables to the ports on the side of the E-Box. It does not matter where each USB cable is plugged in.

Figure 5-52. Connect the USB cables

10. Connect one end of the peripheral extension cable to the E-Box and the other end to the strain relief connector.

Figure 5-53. Connect the peripheral extension cable

Replace the OmniRx Lid

Once the G4 console and the E-Box are successfully installed, the OmniRx lid needs to be installed.

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1. Lift the OmniRx lid onto the back of the machine and set the lid down, ensuring that it rests on the console frame pegs.

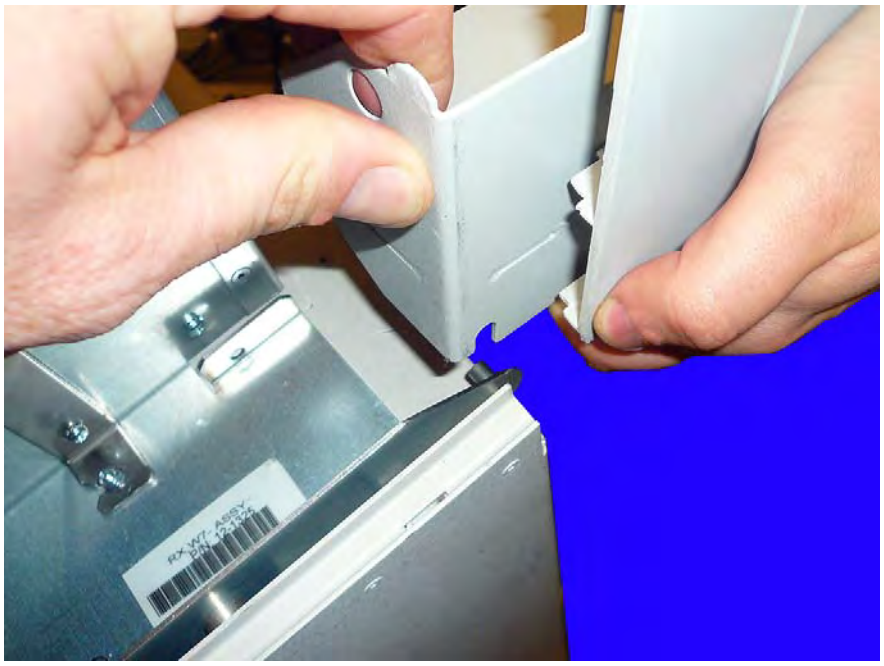

Figure 5-54. Place the lid on the pegs

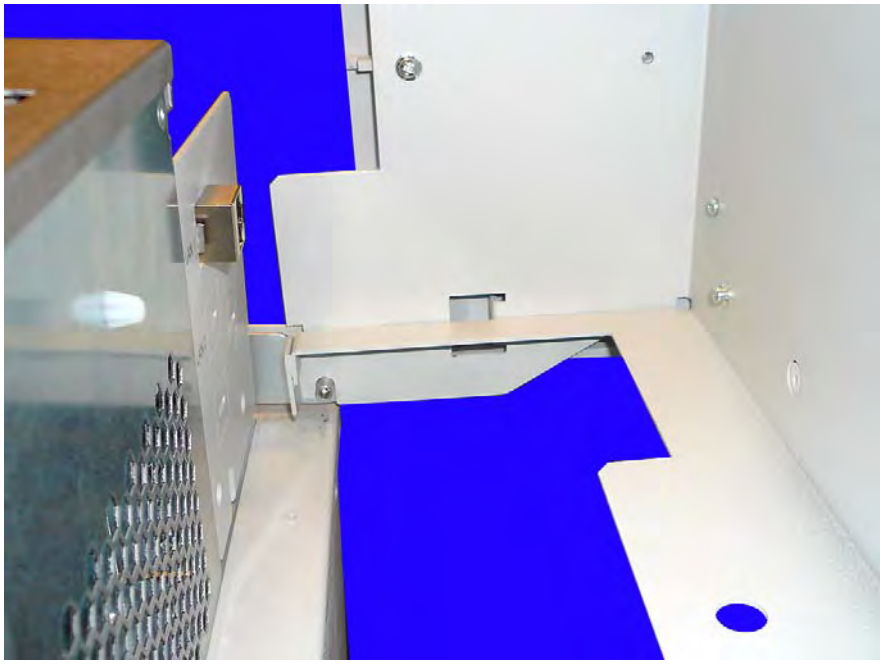

Figure 5-55. Place the lid on the pegs

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2. Set the lid down gently and use key # (insert key # here) to lock the lid.

Figure 5-56. Lock the lid

3. Power up the OmniRx.

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CT PC E-Box

Introduction

This procedure will guide the user through the procedures required to remove a G4 E-Box and replace any FRU parts within the E-Box.

Tools Required

- Torx T10 driver
- Torx T15 driver
- Torx T20 driver
- Phillips #1 screwdriver
- Standard Blade Screwdriver
- Cam Lock Key #2036
- Cam Lock Key #2378

Open the E-Box

1. Remove the three screws that secure the E-Box lid.

Figure 6-1. Remove the screws that secure the E-Box lid

2. Using the finger holds in the lid, pull the lid forward and lift it to remove it from the frame.

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3. Set the lid and the three screws aside.

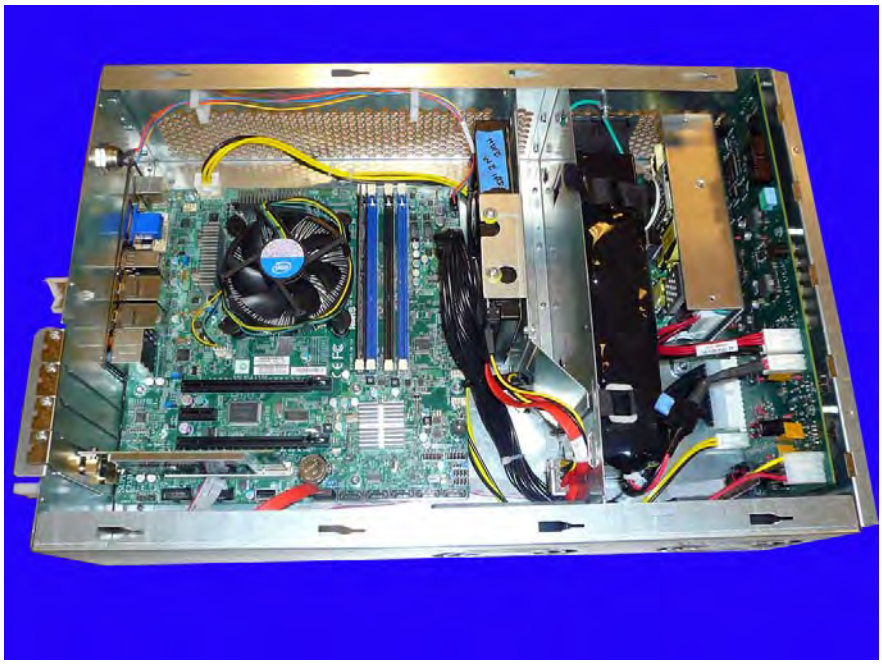

Figure 6-2. The CTPC console E-Box with the lid removed

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Remove/Replace the Hard Drive

Remove the Hard Drive

1. Remove the data and power cables from the hard drive.

Figure 6-3. Disconnect the data and power cables from the hard drive

2. Loosen but do not remove the screw that connects the hard drive plate to the E-Box wall.

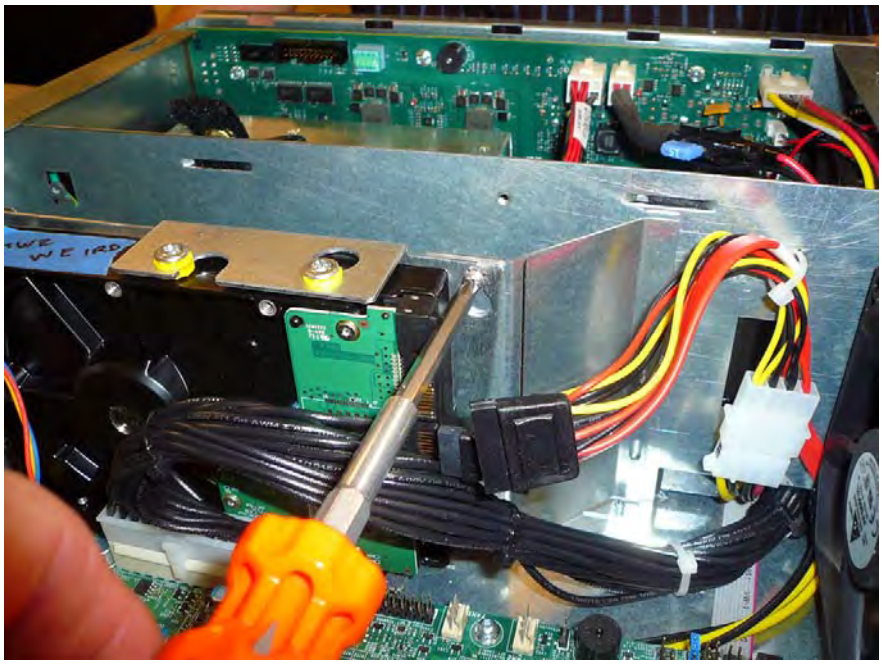

Figure 6-4. Loosen the screw that secures the hard drive to the E-Box wall

3. Lift the hard drive up, pull it away from the drive all, and remove it from the E-Box.

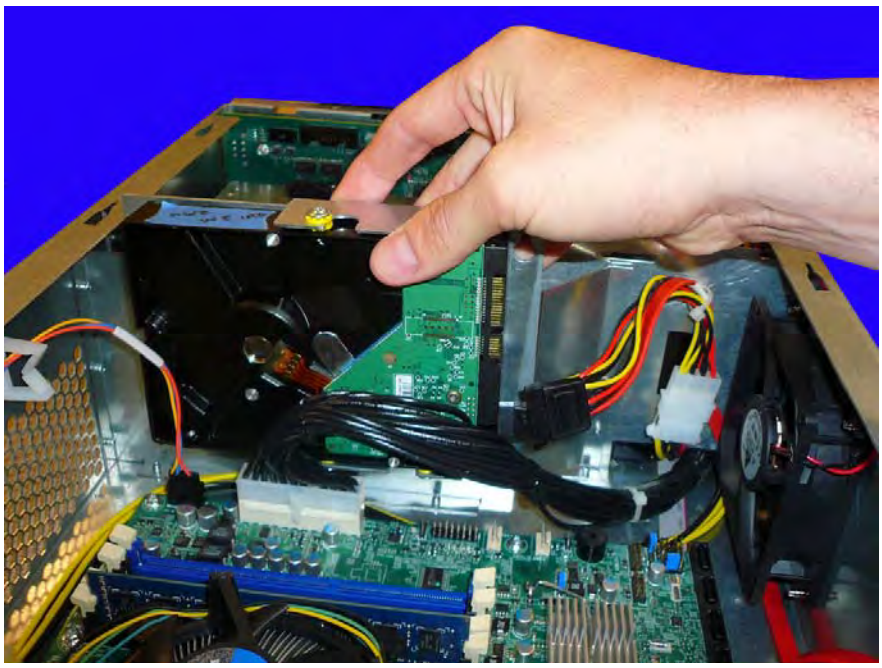

Figure 6-5. Remove the hard drive

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Replace the Hard Drive

1. Set the hard drive into place inside the E-Box. Make sure not to pinch any wires that may be present inside the E-Box.

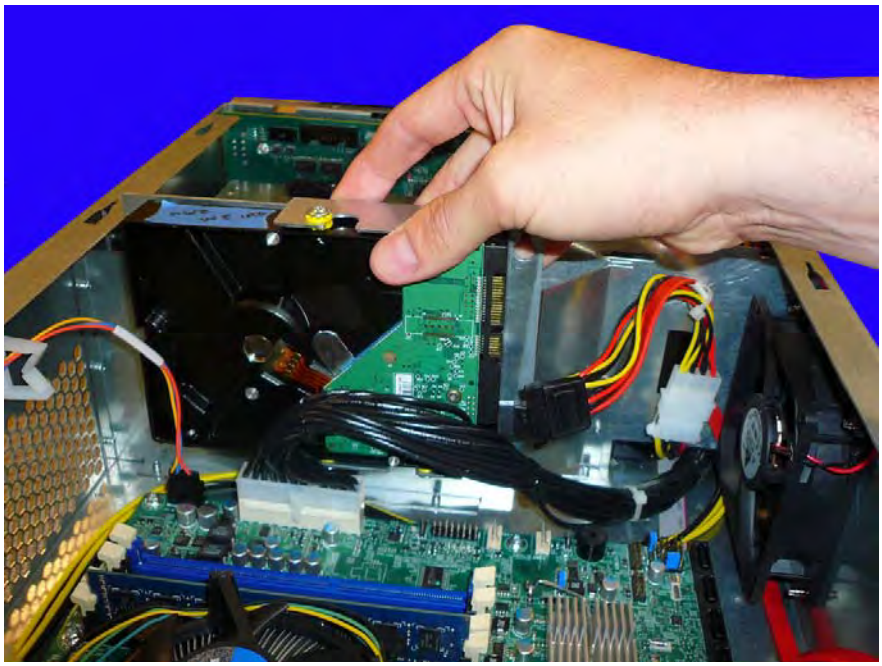

Figure 6-6. Replace the hard drive

2. Tighten the screw that connects the hard drive plate to the E-Box wall.

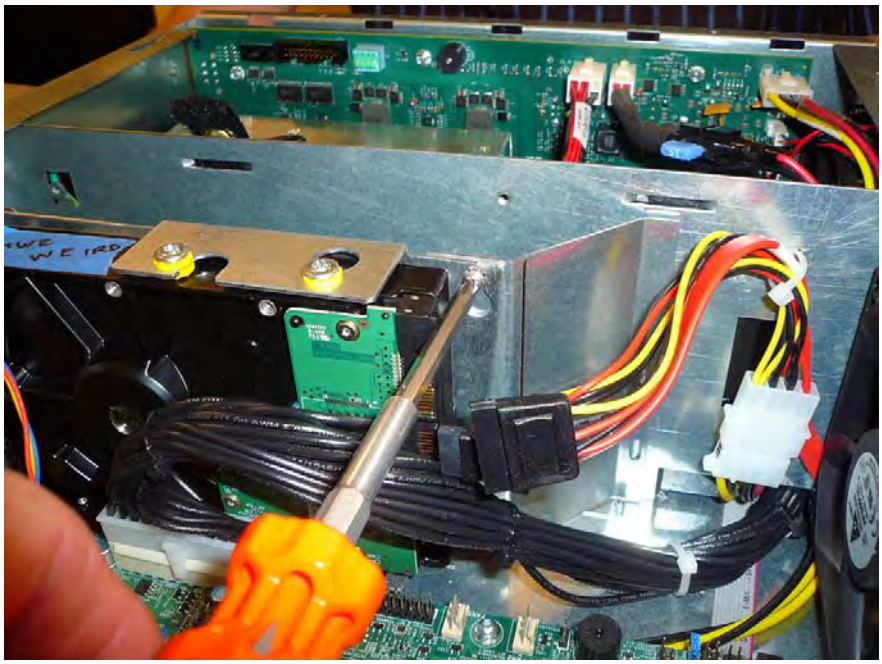

Figure 6-7. Tighten the screw that secures the hard drive to the E-Box wall

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3. Replace the data and power cables to the hard drive.

Figure 6-8. Connect the data and power cables for the hard drive

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Remove/Replace the Fans

Remove the Fans

1. Remove the four screws that secure each cooling fan to the E-Box.

Figure 6-9. Remove the screws securing the fans to the E-Box

2. Disconnect the fan cables from the PowerCom4 board.

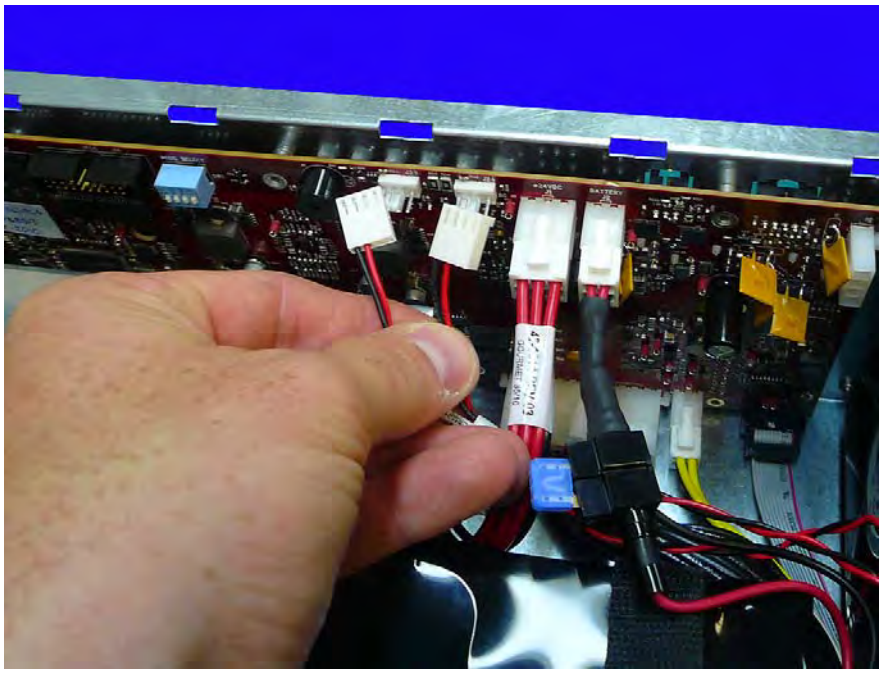

Figure 6-10. Disconnect the fan cables from the PowerCom4 board

3. Remove the fans from the E-Box.

Replace the Fans

1. Hold each fan in place inside the E-Box.

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2. Replace the four screws that secure each cooling fan to the E-Box.

Figure 6-11. Replace the screws securing the fans to the E-Box

3. Connect the fan cables to the PowerCom4 board.

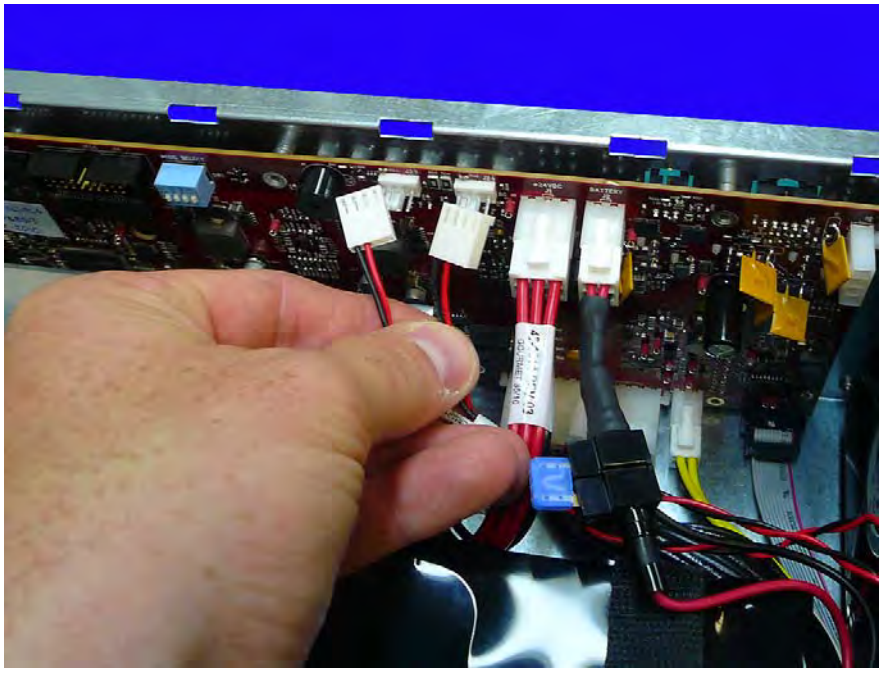

Figure 6-12. Connect the fan cables to the PowerCom4 board

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Remove/Replace the Battery

1. Remove the velcro straps that secure the battery to the E-Box frame.

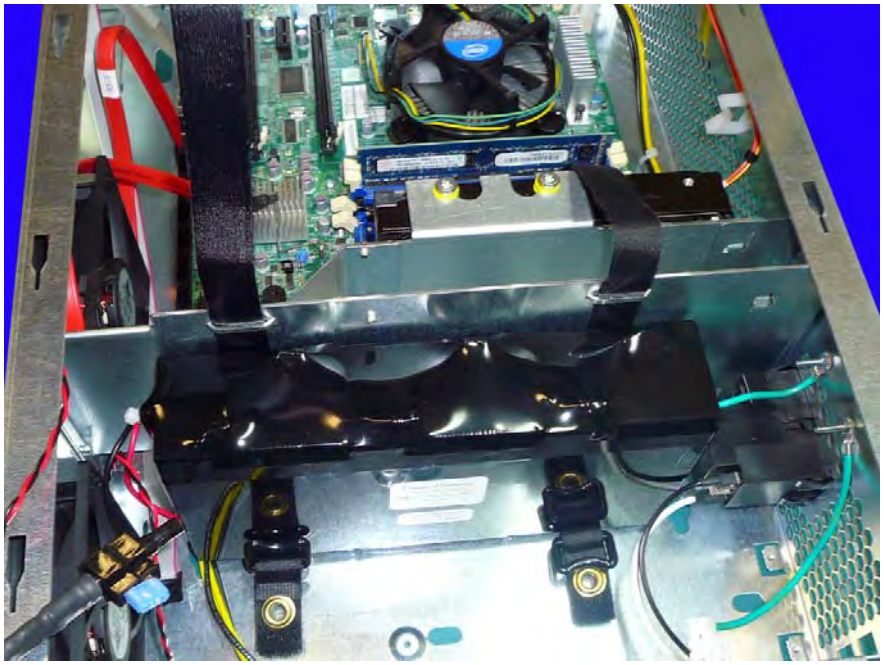

Figure 6-13. Remove the velcro straps that secure the battery to the E-Box frame

2. Disconnect the cable that connects the battery to the PowerCom4 board.

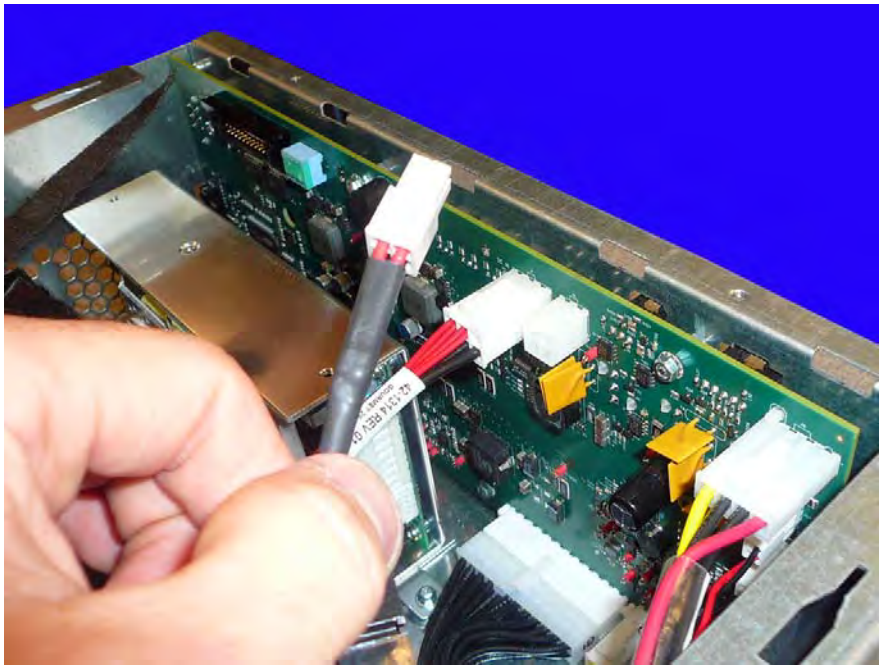

Figure 6-14. Disconnect the cable that connects the battery to the PowerCom4 board

3. Remove the battery from the E-Box.

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Replace the Battery

1. Set the battery into place inside the E-Box. Make sure not to pinch any wires coming from the power entry module.
2. Replace the velcro straps that secure the battery to the E-Box frame.

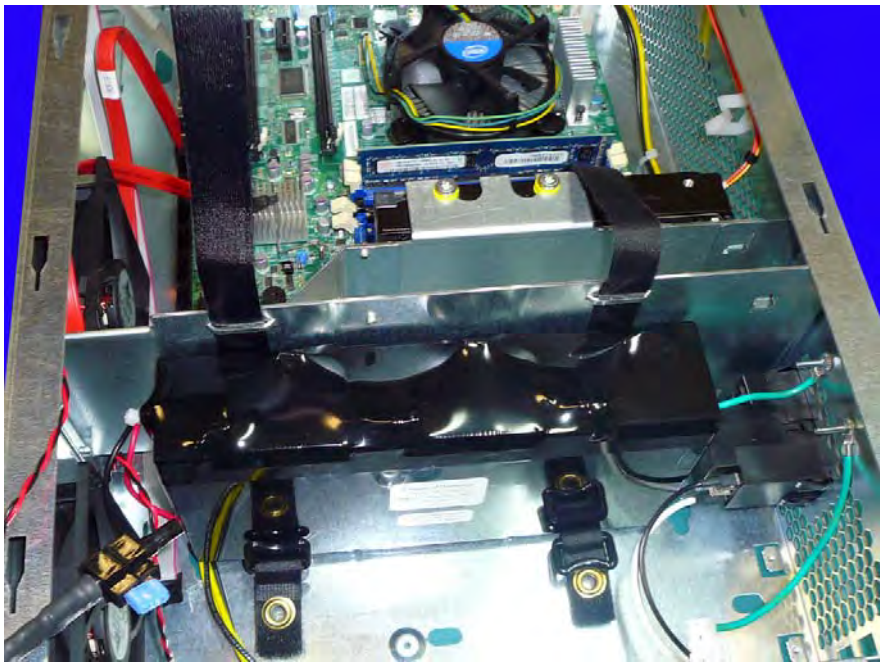

Figure 6-15. Set the battery on the straps and secure the straps

3. Connect the cable that connects the battery to the PowerCom4 board.

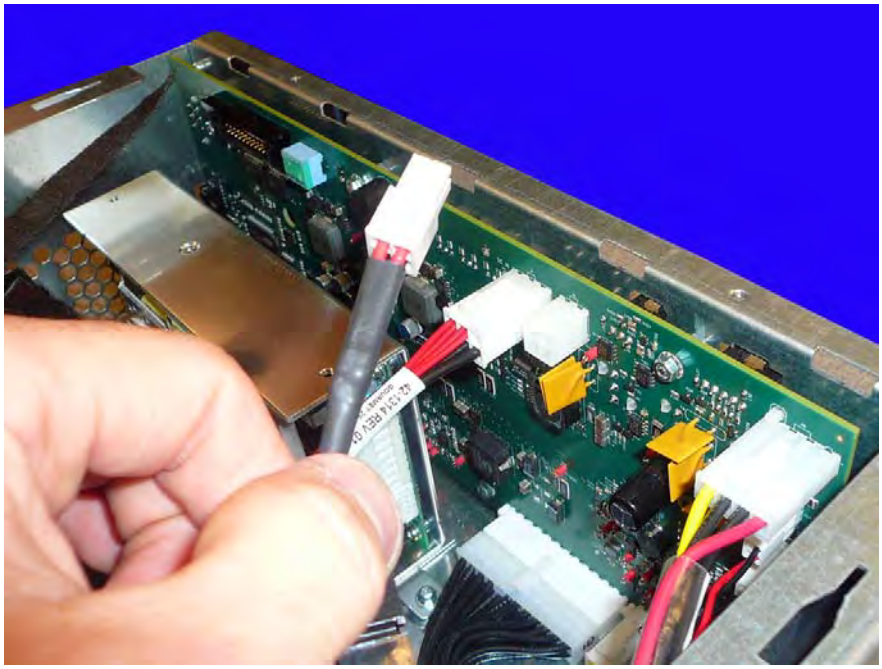

Figure 6-16. Connect the battery cable to the PowerCom4 board

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Remove/Replace the Power Supply

Remove the Power Supply

1. Disconnect the cable that connects the power supply to the PowerCom4 board.

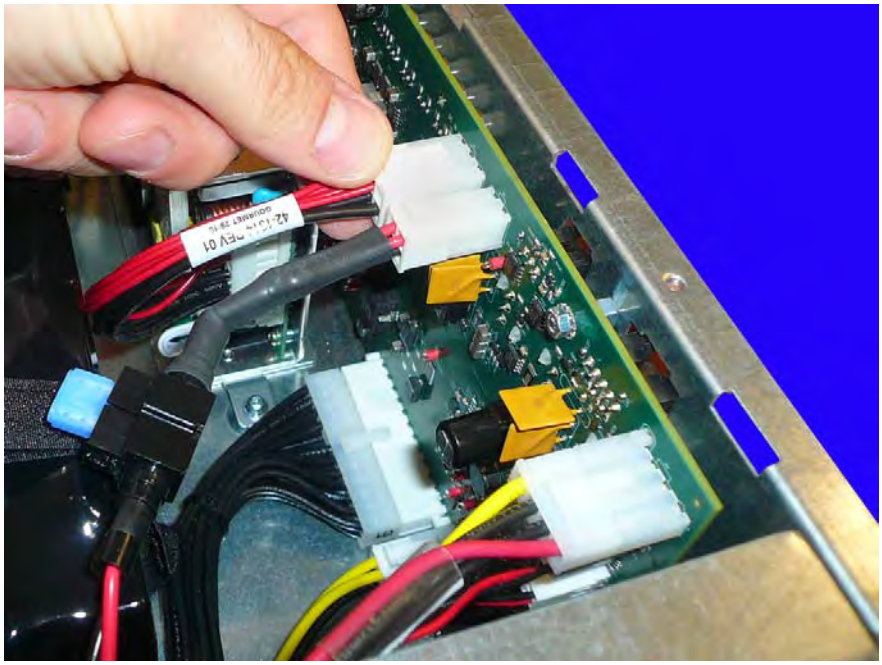

Figure 6-17. Disconnect the power supply cable from the PowerCom4 board.

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2. Remove the screw that secures the power supply to the E-Box base.

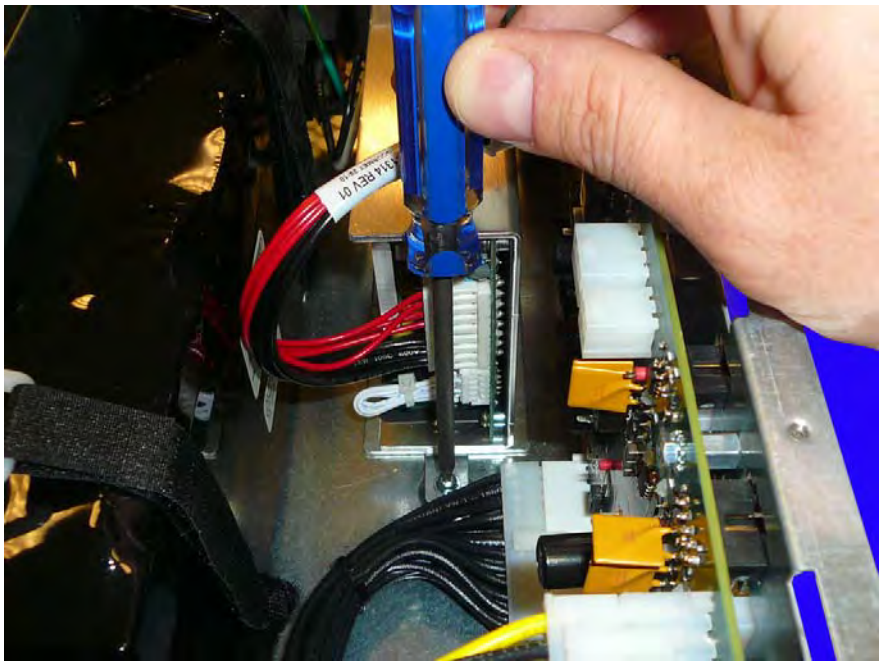

Figure 6-18. Remove the screw that secures the power supply to the E-Box

3. Pull the power supply away from the E-Box wall.
4. Lift, but do not remove, the power supply from the E-Box.

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Caution: Pulling the power supply too far from the E-Box could damage the power supply

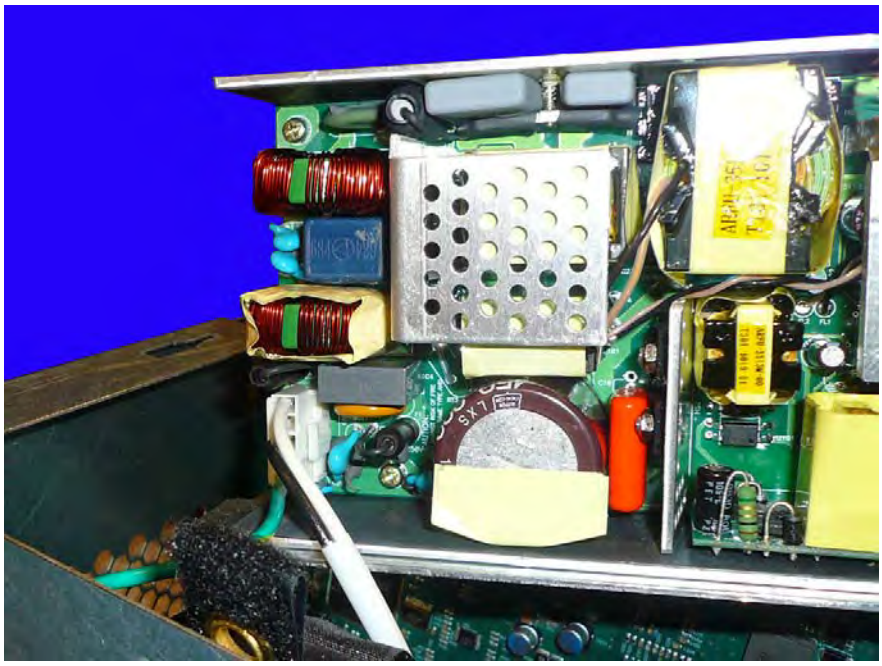

Figure 6-19. Figure 1-19. Power supply power cable

5. Remove the power cable connected to the power supply.

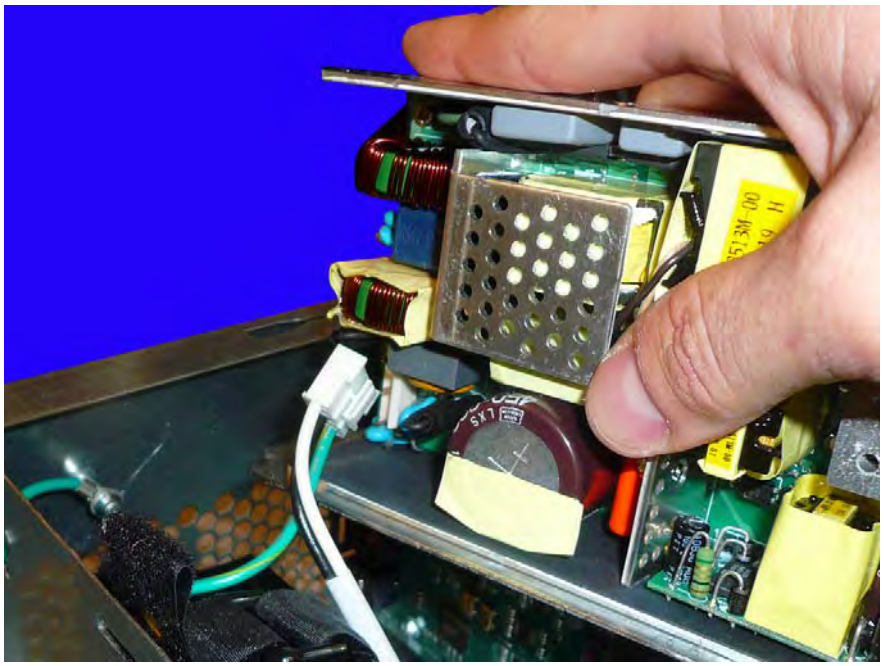

Figure 6-20. Disconnect the power cable from the power supply

6. Remove the power supply from the E-Box.

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Replace the Power Supply

1. Place the power supply into the opening in the E-Box.

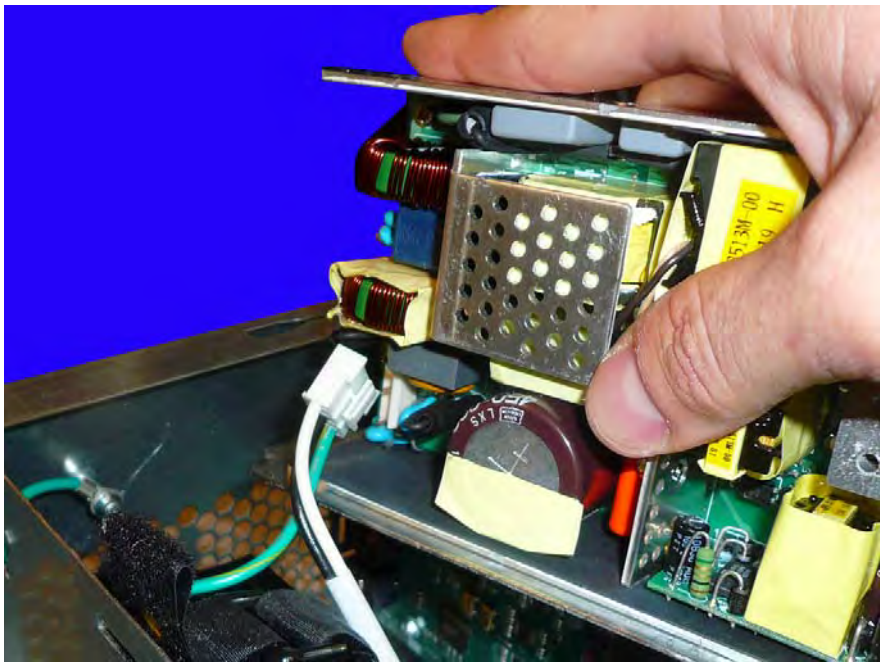

Figure 6-21. Place the power supply

2. Reconnect the power cable to the power supply.

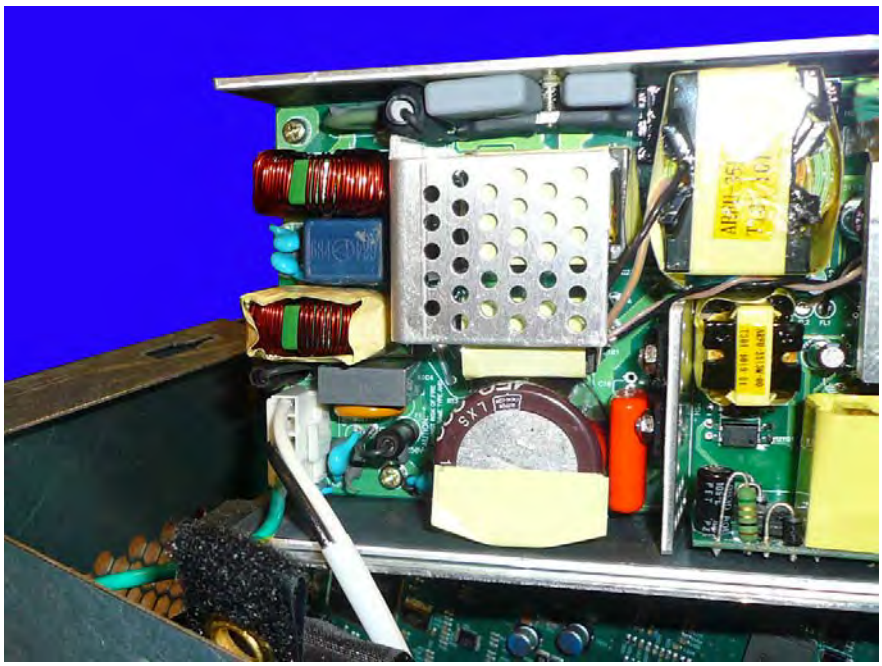

Figure 6-22.

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3. Slide the power supply into place underneath the two tabs on the E-Box frame.

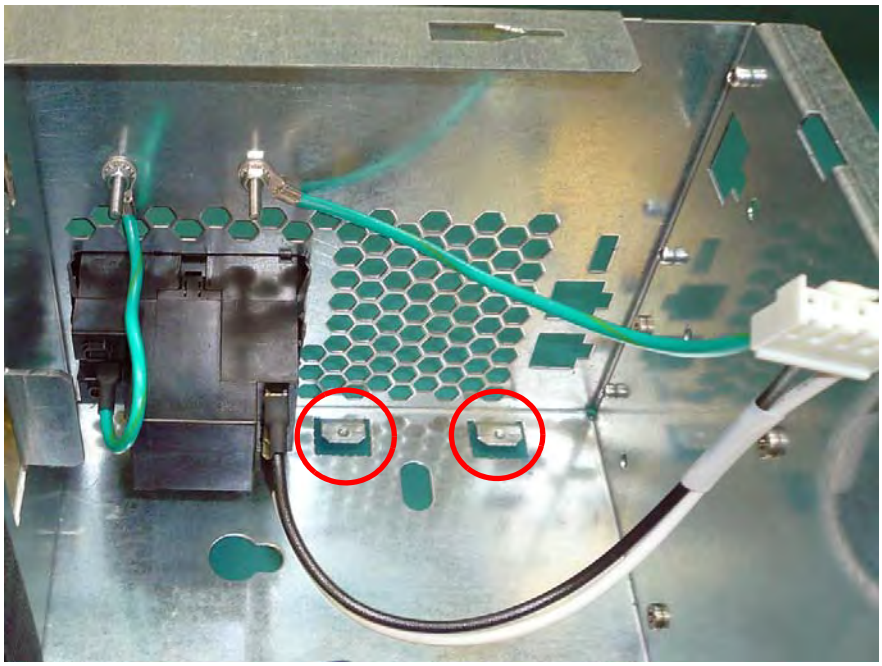

Figure 6-23. Tabs to secure the power supply

4. Secure the power supply to the E-Box by replacing the screw that secures the power supply to the E-Box.

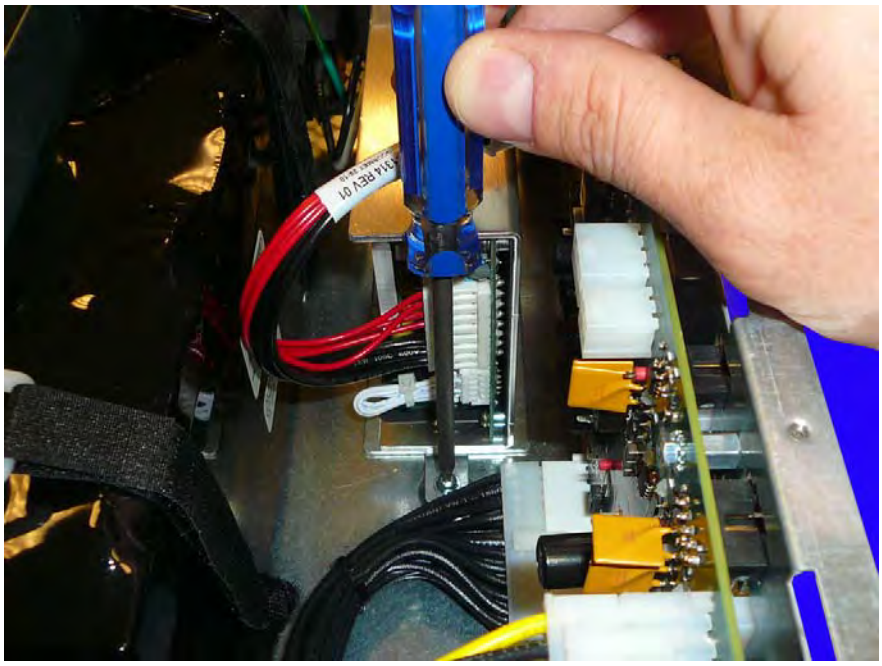

Figure 6-24. Replace the screw that secures the power supply to the E-Box

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5. Connect the power supply power cable to the PowerCom4 board.

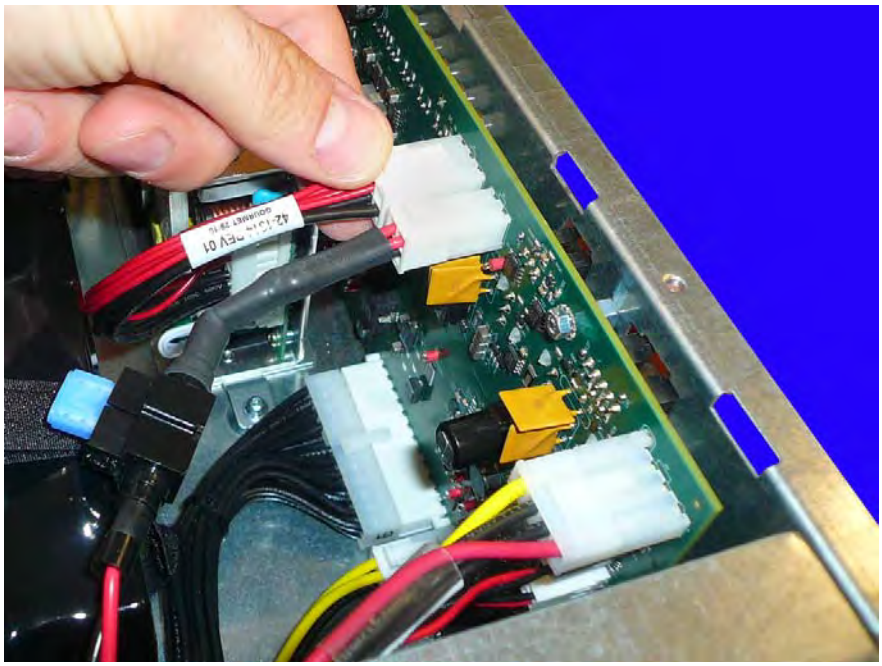

Figure 6-25. Connect the power supply power cable to the PowerCom4 board

Remove the wireless card

1. Remove the screw that secures the wireless card to the E-Box frame.

Figure 6-26. Remove the screw securing the wireless card to the E-Box

2. Lift the wireless card from the E-Box.

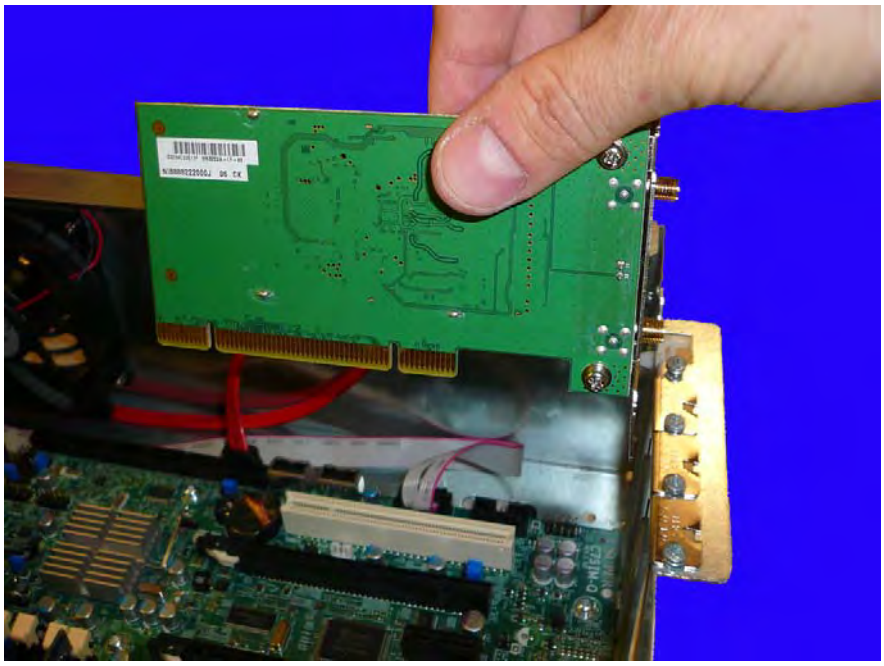

Figure 6-27. Remove the wireless card from the E-Box

Replace the wireless card

1. Place the wireless card into the E-Box, ensuring that it fits snugly into the slot on the motherboard.

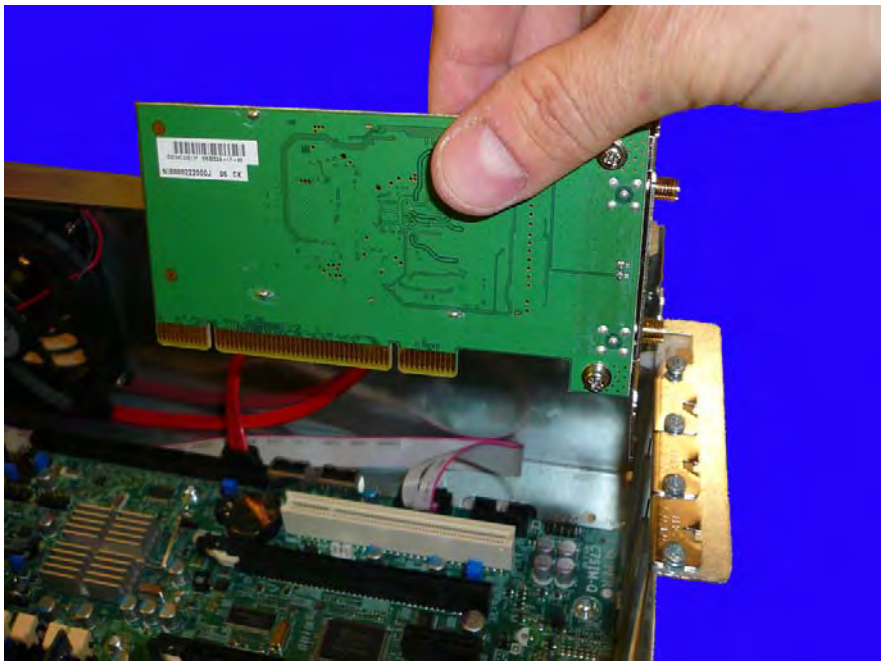

Figure 6-28. Replace the wireless card

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2. Replace the screw that secures the wireless card to the E-Box frame.

Figure 6-29. Replace the screw that secures the wireless card

Remove/Replace the Power Entry Module

Remove the Power Entry Module

1. Remove the battery. Follow the steps in "Remove the Battery" on page 1-8.
2. Remove the power supply. Follow the steps in "Remove the Power Supply" on page 1-10.

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3. Remove the two nuts that secure the power entry module to the E-Box frame. Use a nut driver.

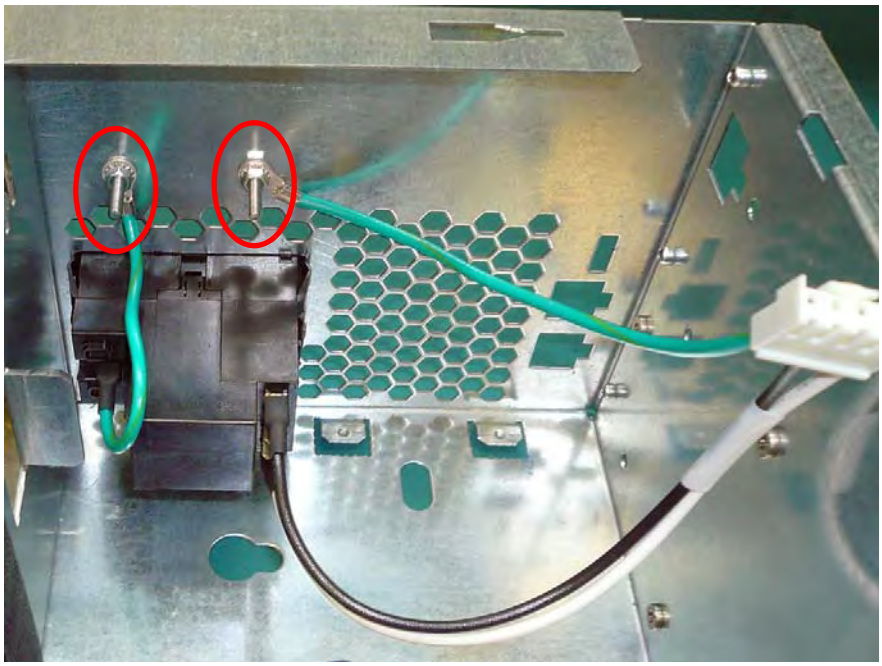

Figure 6-30. Remove the screws securing the power entry module to the E-Box

4. Pinch the tabs on the inside corners of the power entry module and push it out from the inside of the E-Box.
5. Remove the power entry module from the E-Box.

Replace the Power Entry Module

1. Feed the cables through the back of the E-Box into the box.
2. Pinch the tabs on the corners of the power entry module and push the module from the rear into the box.

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3. Replace the two nuts that secure the power entry module wires to the E-Box frame.

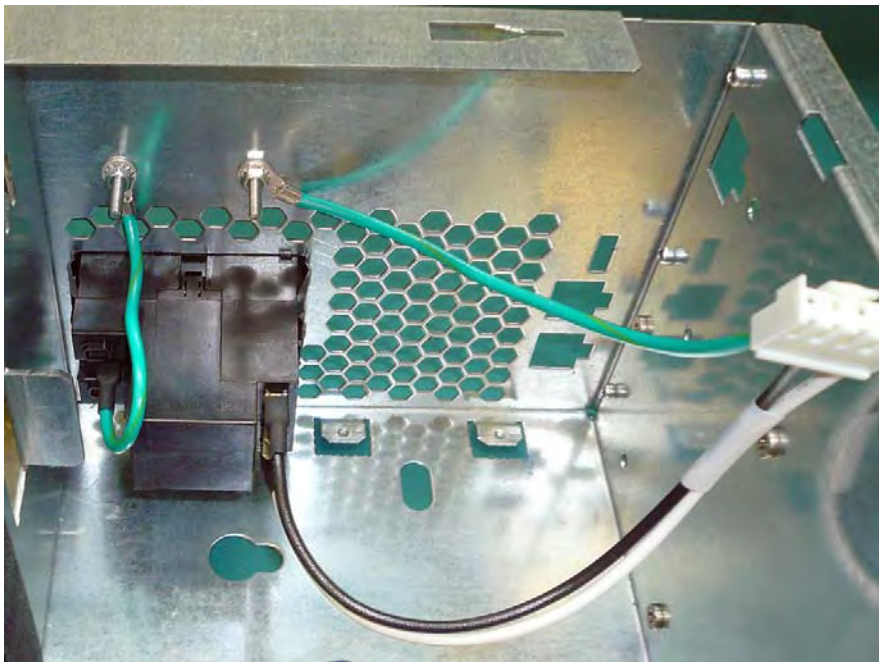

Figure 6-31. Replace the screws that secure the ground wires to the E-Box

4. Replace the power supply. Follow the steps in "Replace the Power Supply" on page 1-13.
5. Replace the battery. Follow the steps in "Replace the Battery" on page 1-9.

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Appendix A: Part List

Link back to the procedure that calls out the given part using the cross reference in the **Where Used** column.

Part #	Part Name	Agile Description	Where Used
12-3102 12-3113	supply drawer	DRAWER ASSY,SUPPLY,OSD24,GREEN BUTTONS DRAWER ASSY,SUPPLY,OSD24,BLUE BUTTONS	Supply Drawer Installation
13-1128-58	PowerCom2 tray	MFG ASSY,CT PC BOX,W/PTR, 5.8 XP ETX CE [inactive]	PC Tray Upgrade
13-1129 13-1142 13-1136 13-1143 13-1150 13-1152 13-1151 13-1153	console	MFG ASSY, LID, ETX, LVDS, RX-CT (old) MFG ASSY, LID, LVDS, RX-CT, MOBILE CART (old) MFG ASSY,LID W/O PTR,CE (old) MFG ASSY, LID W/O PTR, MOBILE CART (old) MFG ASSY, LID, ETX, LVDS, RX-CT (new) MFG ASSY, LID, LVDS, RX-CT, MOBILE CART (new) MFG ASSY,LID W/O APS PTR,CE (new) MFG ASSY, LID W/O APS PTR, MOBILE CART (new)	Keyboard Service Standardization Changes
14-1122	keyboard	MFG,ASSY,KEYBOARD/LCD,W/PTR OMNIRX	PS/2 Keyboard
14-1123 14-1291 (printer) ribbon cable [hard wired to printer, same P/N as printer]	printer, printer assembly	MFG,ASSY,PRINTER,OMNIRX (old) MFG ASSY,APS PRINTER,OMNIRX (new)	Seiko Printer APS Printer
14-1261	LCD assembly	MFG ASSY, DISPLAY,ETX-REVC,LVDS,RX-CT	LCD Screen Removal
14-2040	PowerCom3 tray	ELECTRONICS TRAY,ETX2,5.10.1.9,ANESTHESIA	PC Tray Upgrade
14-7008 14-7009 14-7013 14-7015 14-7016	pharmacy drawer	MODEL,OLL6,LARGE,LOCKING DRAWER,RX2 MODEL,OSL6,LARGE,SENSING DRAWER,RX2 MODEL,OSL12,REGULAR,SENSING DRAWER,RX2 MODEL,OSL24,24-BIN,SENSING DRAWER,RX2 MODEL,OLMD24,24-LIT,MATRIX MATRIX,DRAWER	Pharmacy Drawer Installation
14-7021	double-deep matrix drawer bin labels [comes with drawer]	MODEL OMD4,4-BIN MATRIX DRAWER,UNLIT	Double-Deep Matrix Drawer Matrix Drawers Labels
15-7020	false drawer front	MFG,ASSY,DRAWER,FRONT,DUMMY RX2	Pharmacy Drawer Installation

Table A-1. OmniRx Part List

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Part #	Part Name	Agile Description	Where Used
15-7075 15-7076	divider (kit)	KIT,DIVIDER,24-BIN,LIT,MATRIX KIT,DIVIDER,4/96,BIN,UNLIT,MTR	Bin Configuration
40-1045 71-7008	PC card	PCBA, PRINTER INTERFACE, APS PCB ASSY,PRINTER,RIGHT ANGLE SHROUDED CONN (Seiko)	Seiko Printer APS Printer
40-7035	wireway cable	PCB ASSY,RX,DRAWER,CONNECT OMNIRX	PowerCom2 Tray
41-1034	keyboard PCB	PCB,KEYBOARD,QWERTY,USB KB,PS/2 MSE,84-KEY,CTPC	USB Keyboard
41-1035	keypad PCB	PCB,KEYBOARD,NUMERIC,USB KB,PS/2 MSE,23-KEY,CTPC	USB Keyboard
41-7009	(wireway) SPC Board	PCB,RX,DRAWER,CONNECT RX	Wireway Removal
42-1185	cabinet power cable	CABLE,ASSY,POWER,SWITCH	PowerCom2 Tray
42-1204	card reader cable	CABLE,ASSY,POWER,CARD,READER CT,PC,BOX	PowerCom2 Tray
42-1210	fan power cable	CABLE,ASSY,FAN RETROFIT COOLING,OMNIRX	PowerCom2 Tray
42-1229	flat panel cable; LCD data cable	CABLE ASSY, LVDS LCD DISPLAY	LCD Screen Removal
42-1232	battery cable	CABLE,ASSY,BATTERY,18V,UPS,CT PC BOX,POWERCOM3	General Shutdown
42-1302-02	[USB keyboard] power cable	CABLE,ASSY,USB KEYBOARD,QWERTY TO MOTHERBOARD,STD,CTPC	USB Keyboard
42-1304	(printer) power cable	CABLE ASSY, POWER, APS PTR, CT PC BOX	APS Printer
42-1307	[keypad/keyboard] ribbon cable	CABLE ASSY,NUMERIC TO KEYBD, OMNIRX/TT	USB Keyboard
42-2101	SPC board cable	CABLE,ASSY,DRAWER,CONTROLLER TO,SPC	Supply Drawer Installation
42-7030	drawer cable	CABLE,ASSY,DRAWER,OMNIRX	Pharmacy Drawer Removal
42-7061	touch screen cable	CABLE,ASSY,TOUCH,PAD,DATA ANESTHESIA	PowerCom2 Tray
42-7087	contrast cable	CABLE ASSEMBLY, POTENTIOMETER, OMNIRX	PowerCom2 Tray
42-7088-12 42-7096-12	data cable (sensors hard wired to printer)	CABLE ASSY,PRINTER,48" (Seiko) CABLE ASSY, PRINTER, 34 PIN, 48" (APS)	Seiko Printer APS Printer
42-7092	inverter cable	CABLE ASSY,ETX-REV C TO INVERTER,121PW181,RX	LCD Screen Removal
51-2064	manual override handle	KNOB,PULL,MANUAL,OVERRIDE OMNIRX	Manual Override Cable Service
51-7025	manual override cable	CABLE,MANUAL OVERRIDE,OMNIRX	Manual Override Cable Service
53-2081 53-7289	cable cover bracket	COVER,CABLE,OMNIRX [old] COVER,CABLE,OMNIRX [new]	Standardization Changes Manual Override Cable Service
53-1082	keyboard cover	BKT,COVER,KEYBD,OMNIRX	PS/2 Keyboard
53-1105	LCD bezel	BEZEL, NEC LVDS LCD DISPLAY	LCD Screen Removal
53-2078	wireway	WIREWAY,OMNIRX	Wireway Removal

Table A-1. OmniRx Part List

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Part #	Part Name	Agile Description	Where Used
53-2081	drawer controller cable cover	COVER,CABLE,OMNIRX	Pharmacy Drawer Removal
53-2082	manual override cover	COVER,MANUAL,OVERRIDE,OMNIRX	Wireway Removal Pharmacy Drawer Installation Pharmacy Drawer Removal
53-7104 53-7123	slide mounting bracket	BRACKET,SLIDE,MOUNT,OMNIRX BRACKET,SLIDE,MOUNT,MAN. OVERRIDE,ATTACH	Wireway Removal Supply Drawer Installation Pharmacy Drawer Installation
53-7106	cable clamp	CABLE,CLAMP,SLIDE,MOUNT,OMNIRX	Pharmacy Drawer Installation Pharmacy Drawer Removal
53-7128	override lever	LEVER,MANUAL OVERRIDE RELEASE,3-DRAWER CARRIER	Pharmacy Drawer Removal
53-7286	keyboard support bracket	BRACKET,MOUNTING,KEYBOARD,OMNIRX	USB Keyboard
53-7288	keypad support bracket	BRACKET,MOUNTING,NUMERIC KEYPAD,OMNIRX	USB Keyboard
57-7231	light pipe	LIGHT PIPE, 2222, 3131,96 SDD	Lit Matrix Drawers
57-7035 57-7046	bin liner	LINER,MATRIX,96-BIN,RX LINER,MATRIX,4-BIN,RX,VACUUM FORMED	Double-Deep Matrix Drawer
70-7000 70-7002	(printer) ribbon cable (flex cable hard wired to printer)	PRINTER,THERMAL,SEIKO LTP3345A-S576 PRINTER, THERMAL, APS CP305-80MM-BL-OMN	Seiko Printer APS Printer
71-1145	elastomer	OVERLAY, ELASTOMER, QWERTY, ENGLISH, CTPC	PS/2 Keyboard
71-1188	keypad overlay	OVERLAY,ELASTOMER,KEYPAD,LOW PROFILE,NUMERIC,GREY	USB Keyboard
71-1189	keyboard overlay	OVERLAY,ELASTOMER,QWERTY, LOW PROFILE, ENGLISH	USB Keyboard
71-3001 71-3008	switchpanel connector cover	SWITCHPANEL,DRAWER,GREEN SWITCHPANEL,DRAWER,BLUE	Supply Drawer Installation
73-1001	speaker	SPEAKER, 2.5", 8 OHM, 2W	Speaker Removal
80-0374	DIP switch	SW,DIP,8-POS,SL,SPST,VERT,TH	Supply Drawer Installation
80-0802	speaker cable	CONN,CABLE ASSY,MOLDED PLUG,3.5MM STEREO,SHL'D,PVC,36IN	Speaker Removal
82-6061	jumper	JUMPER,SHUNT,0.1",15AU,RED	Standardization Changes
91-7040	drawer slide	SLIDE,OUTER HALF, DRAWER,RX,ACCURIDE C3834-156-1 [right side]	Wireway Removal

Table A-1. OmniRx Part List

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Part #	Part Name	Agile Description	Where Used
92-1000 92-1002 92-1011	key	CAM LOCK,#2036 [lid] CAM LOCK,#2202 [manual ovveride cover] CAM LOCK,#2232 [manual ovveride cover]	General Shutdown Wireway Removal Pharmacy Drawer Installation Pharmacy Drawer Removal
94-6005	(keyboard cover) nut	NUT,HEX,4-40,SS	PS/2 Keyboard USB Keyboard
94-6132	(supply drawer) screw (drawer controller cable cover) screw	SCREW,BH,TORX,8-32,X,3/16,SS	Supply Drawer Installation Pharmacy Drawer Removal
94-6133	(slide mounting screw (wireway) screw [front, side] (manual override assembly) screw (clamp) screw	SCREW,BH,TORX,8-32,X,1/4,SS	Wireway Removal Pharmacy Drawer Installation Manual Override Cable Service
94-6137	(speaker) screw	SCREW,BH,TORX,6-32,X,3/16,SS	Speaker Removal
94-6142	(manual override cable) screw	SCREW,BH,TORX,4-40,X,1/4,SS	Manual Override Cable Service
94-6162	(LCD bezel) screw (printer cover) screw (printer assembly) screw (console) screw (cable cover bracket) screw	SCREW,FH,TORX,6-32,X,3/16,100,DEG,C'SINK	LCD Screen Removal Seiko Printer APS Printer Manual Override Cable Service Standardization Changes
94-6165	(false drawer front) screw	SCREW,BH,TORX,8-32,X,3/8,SS	Pharmacy Drawer Installation
94-6167	(manual override cable) nut	NUT,EX,SMALL,HEX,10-32,1/4,X 3/32,SS	Manual Override Cable Service
94-6170	(electronics sled) fastener	STUD,1/4,TURN,WING,HD,SOUTHCO	PowerCom2 Tray
94-6173	(PC card) screw	SCREW,SHCS,4-40,X,3/16,SS	Seiko Printer APS Printer
95-6015	paper	PAPER,THERMAL,92M ROLL,80MM WIDE	Seiko Printer APS Printer

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